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National Highway Traffic Safety Administration

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*** *** ***



On-Scene / Vehicle to Vehicle / Front to Right Side Dynamic Science, Inc. / Case Number: DS9610 1992 Mercury Sable LS

1996

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

Technical Report Documentation Page 1. Report No. 2. Government Accession No. 3. Recipient Catalog No. DS9610 4. Title and Subtitle 5. Report Date 1997 In-Depth Accident Investigation 6. Performing Organization Report No. 7. Author(s) 8. Performing Organization Report No. Dynamic Science, Inc. 9. Performing Organization name and Address 10. Work Unit No. (TRAIS) Dynamic Science, Inc. 530 College Parkway, Ste. K 11. Contract or Grant no. Annapolis, MD 21401 DTNH22-94-D-27058 12. Sponsoring Agency Name and Address 13. Type of report and period Covered [Report Month, Year] U.S. Dept. of Transportation (NRD-32) National Highway Traffic Safety Administration 14. Sponsoring Agency Code 400 7th Street, SW Washington, DC 20590 15. Supplemental Notes This case was initiated in response to a reported collision in which the right side passenger's air bag deployment caused fatal injuries to the 7 year old right front passenger. This was conducted as an on-scene investigation. This collision occurred in the evening hours on Vehicle 1 was a 1992 Mercury Sable LS 4-door, driven by a 68-year-old male and the right front seat was occupied by a 7 year old male. Vehicle 2 was a 1993 Pontiac Grand Am (SE) 2-door driven by a 28-year-old male. The roadway is an asphalt, two lane, two way, winding desert roadway with no traffic controls. Vehicle 1 was traveling in an easterly direction, and Vehicle 2 was traveling in a westerly direction. Due to the heavy rain, the driver of Vehicle 1 had begun to slow down. The driver of Vehicle 1 saw Vehicle 2 come across the center double yellow line, but did not have time to take evasive action. Vehicle 2 was traveling too fast for the weather conditions. The driver of Vehicle 2 lost control of the vehicle and it entered the eastbound travel lane, directly in front of Vehicle 1. The left front of Vehicle 1 struck the right front quarter panel of Vehicle 2. At impact, the forces exceeded the threshold of the supplemental restraint systems in Vehicle 1, and both air bags deployed. After impact, Vehicle 2 rotated counterclockwise and the right side of Vehicle 2 side-slapped the left side of Vehicle 1. Vehicle 1 moved forward in an easterly direction and ran off the road and came to final rest heading north-east on the dirt shoulder. After the secondary impact, Vehicle 2 rotated counterclockwise approximately 120 degrees, and came to final rest, heading southwest, across the westbound travel lane. The air bag in the right front side contacted the right front occupant and caused fatal injuries to him. 16. Abstract 17. Key Words 18. Distribution Statement Air bag, deployment, child, fatality, collision

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TECHNICAL SUMMARY

This case was initiated in response to a reported collision in which the right side passenger's air bag deployment caused fatal injuries to the 7 year old right front passenger. This was conducted as an on-scene investigation. This collision occurred in the evening hours on 1996, in DSI was notified on 1996 and the source of the case is unknown.

The roadway is an asphalt, two lane, two way, winding desert roadway with no traffic controls. Vehicle 1 was about to enter a right curve, and Vehicle 2 was exiting a left curve in the roadway. There was a slight uphill grade for Vehicle 1, and a slight downhill grade for Vehicle 2. It had just begun to rain heavily, and lightning was reported in the area. The posted speed limit was 89 km/h (55 MPH).

Vehicle 1 was a 1992 Mercury Sable LS 4-door, driven by a 68 year old male (178 cm / 70 in, 100 kg / 220 lb) and the right front seat was occupied by a 7 year old male (137 cm / 54 in, 26 kg / 57 lb). Vehicle 2 was a 1993 Pontiac Grand Am SE 2-door, driven by a 28 year old male (185 cm / 73 in, 73 kg / 160 lb).

Vehicle 1 was traveling in an easterly direction, and Vehicle 2 was traveling in a westerly direction. Due to the heavy rain, the driver of Vehicle 1 had begun to slow down. The driver of Vehicle 1 saw Vehicle 2 come across the center double yellow line, but did not have time to take evasive action. Vehicle 2 was traveling too fast for the weather conditions. The driver of Vehicle 2 lost control of the vehicle and it entered the eastbound travel lane, directly in front of Vehicle 1. The left front of Vehicle 1 struck the right front quarter panel of Vehicle 2.

At impact, the forces exceeded the threshold of the supplemental restraint systems in Vehicle 1, and both air bags deployed.

After impact, Vehicle 2 rotated counterclockwise and the right side of Vehicle 2 side-slapped the left side of Vehicle 1. Vehicle 1 moved forward in an easterly direction and ran off the road and came to final rest heading north-east on the dirt shoulder. After the secondary impact, Vehicle 2 rotated counterclockwise approximately 120 degrees, and came to final rest, heading southwest, across the westbound travel lane.

The driver of Vehicle 1 was wearing the available lap/shoulder restraint. The evidence of usage was that the seat belt webbing had been stretched and curled. Also there were blood stains on the lap belt portion of the restraint and seat belt webbing transfer on the D-ring. The driver sustained injuries consisting of lacerations to the back of his head and left arm. The driver does not remember having lacerations or bleeding, but there were blood stains on the driver's air bag, lap belt and the seat. The lacerations to the back of the head may have been caused by the plastic cover across the top of the window frame. It had been displaced laterally towards the driver. The driver also sustained three fractured ribs on his right side which were caused by loading on the lap/shoulder restraint. He had a fractured metatarsal on his right foot that was caused when the toe pan intruded and contacted the brake and accelerator pedals. The fractured left hip presumably resulted from the side slap with Vehicle 2. The driver had abrasions to his chest, and left lower abdomen from contact with the lap/shoulder restraint and the air bag. The driver was transported to an area hospital via ground ambulance and he was hospitalized for approximately a month. Due to his hip replacement, he was in rehabilitation for approximately another month.

The 7 year old right front occupant of Vehicle 1 was wearing the available lap/shoulder restraint. The inspection

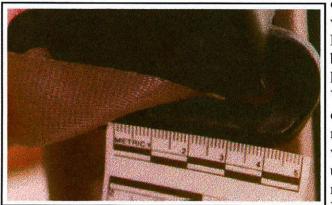


Figure 1. D-ring on right front shoulder belt.

of Vehicle 1 revealed loading on the seat belt webbing, as well as seat belt webbing transfer marks on the D-ring (see Figure 1). The plastic cover on the lower portion of the seat belt retracting mechanism had been broken off indicating heavy loading on the seat belt (see Figure 2). The driver of Vehicle 1 stated that the child was seated with his back in contact with the seat back, and that the lap/shoulder restraint was worn properly. After the collision, the child was slumped over, still belted in a seated position and unconscious. He was not in the back seat of the vehicle as noted in several of the medical records. The driver of Vehicle 1 further stated that there were no noticeable contusions, abrasions, or redness about the face of the child.



An off duty paramedic arrived on scene shortly after the collision, and performed CPR for some 15 minutes. When rescue personnel arrived on scene the 7-year-old was unconscious, pale, cyanotic, and in full cardiac arrest. He arrived at the ER in the same condition. Medical records noted no evidence of neck or skull fractures. There were multiple abrasions and contusions (AIS-1) primarily over the right lower quadrant. There was trauma to the upper chest and right clavicle. The trauma was primarily seat belt contusions and abrasions

Figure 2. Right front passenger seat, damage to the plastic molding on the lower portion of the seat belt retracting mechanism.

The 7 year old sustained internal massive brain injuries (AIS-5). The autopsy report attributes death to multiple injuries due to blunt force trauma. It states that death is attributed to massive head injury, chest trauma (bilateral pulmonary contusions, AIS-3), and anoxic encephalopathy, brain death. One of the treating physicians indicated that the child "sustained massive whiplash type injuries to his head and neck which caused cerebral edema which resulted in his death." The cerebral edema and pulmonary contusions are attributed to contact with the air bag.

Initially he was transported via helicopter to an area hospital. One day later he was transported via helicopter to a pediatric intensive care unit of another hospital. He was treated there and expired seven days later on 08/20/96 at 1000 hours.

The traffic collision report indicates that the driver of Vehicle 2 was wearing the available lap and shoulder restraint. He sustained injuries consisting of a laceration on the back of his head, and contusions to his leg and center portion of his chest. He was transported to a local hospital via ground ambulance, where he stayed overnight and was released.

Vehicle 1 sustained total damage to the left front of the vehicle as a result of the first impact with Vehicle 2. A CDC of 11FDEW2 was assigned to the damage pattern (see Figure 3), with a maximum crush of 26 cm (10.2 in) at C₂. The missing vehicle portion of WinSmash computed a longitudinal Delta V of -36.6 km/h (22.7 mph) for Vehicle 1. Vehicle 1 was towed from the scene due to its damage to a local tow yard. and was then picked up by the attorney representing occupants of Vehicle 1. Vehicle 1 was then towed to the attorney's office where it was outdoors



Figure 3. Damage to Vehicle 1 from impact #1.

prior to being inspected. Vehicle 1 was inspected more than thirty days after the collision.

Police photographs indicate that Vehicle 2 sustained major damage to its front end, right front quarter panel, right side, right rear quarter panel, and right rear bumper areas as a result of impact with Vehicle 1. A CDC of 02RYEW3 was assigned to the damage pattern for the first impact. The missing vehicle portion of WinSmash computed a Delta V of 46.2 km/h (28.7 mph) for Vehicle 2. Vehicle 2 was towed from the scene due to its damage to a local tow yard, and then sold at a local salvage auction.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DS9610

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Desert/Rural
1996 / 1813 hours
Vehicle to Vehicle / Front to Right Front Side; Secondary impact side slap V1's left side vs. V2's right rear corner
Driver, AIS-2
RF Occupant, AIS-5
Driver, AIS-1
Bad visibility due to heavy rain
Heavy Clouds
100%, Heavy Rain
Wet

ROADWAY:

VEHICLE 1 VEHICLE 2

Type: Two-lane Two-lane

Width: 7 M (22.9 ft) 7 M (22.9 ft)

Traffic Density: Moderate Moderate

Median: Painted double yellow Painted double yellow

lines lines

Edge: Painted white edge line, Painted white edge line,

and dirt shoulder and dirt shoulder

Surface: Asphalt Asphalt

Reported Defects: None None

Co-efficient of Friction (est.): 0.75

Vertical Alignment: Slight uphill Slight downhill

Horizontal Alignment: Straight Exiting left curve

Traffic Controls:

VEHICLE 1 VEHICLE 2

Signals: None None

Signs: None applicable None applicable

Speed Limit: 89 km/h (55 mph) 89 km/h (55 mph)

Towed due to damage

VEHICLES:

Tow Status:

VEHICLE 1 VEHICLE 2 Description: 1992 Mercury Sable LS 1993 Pontiac Grand Am 4-door SE 2-door 100,728 kilometers **Odometer:** Unknown 62,591 miles **Engine:** L6 / 3.8L EFI L4 / 2.3 L EFI **Vehicle Modifications:** None None **Tire Condition:** Good Good **Manual Restraints:** Three-point manual Three-point manual lap/shoulder restraints at lap/shoulder at LR, and LF, RF, LR, and RR RR seating positions. seating positions. Twopoint manual lap restraint at CF, and CR seating positions. **Automatic Restraints:** Driver's and mid-Three-point passive door mounted passenger's air mounted lap/shoulder bags restraints at LF, RF. **Reported Defects:** None None Cargo: None None Windshield Damage: Cracked by impact Cracked by impact forces. forces. Fleet: No No

Towed due to damage

VEHICLE DAMAGE: Impact #1, Highest Delta-V

VEHICLE 1 VEHICLE 2

Object Struck: Vehicle 2 Vehicle 1

Event Number: 01

CDC: 11FDEW2 02RYEW3 estimated from

photographs

Maximum Crush: 26.0 cm (10.2 in) Zone 3, estimated from

photographs

VEHICLE VELOCITY ESTIMATES:

Summary of Results Using Damage

Vehicle 1 Speed Change

(Damage)

Total: 39.0 km/h
Longitudinal: -36.6 km/h
Latitudinal: 13.3 km/h
PDOF: -20°

Energy Dissipated: 52,119 Joules
Barrier Equivalent Speed: 27.2 km/h
Moment Arm of Principle Force: 61.0 cm (CW)
Change in Angular Velocity: 1.8 deg/seconds

Used d0 and d1 values estimated from the vehicle size (modified for offset impact).

Vehicle 2 Speed Change

(ROLDMISS)

Total: 46.2 km/h
Longitudinal: -35.4 km/h
Latitudinal: -29.7 km/h

PDOF: 40°

Energy Dissipated: 186,284 Joules
Barrier Equivalent Speed: 54.9 km/h
Moment Arm of Principle Force: 66.7 cm (CW)
Change in Angular Velocity: 2.4 de/seconds

Used d0 and d1 values estimated from the vehicle size.

Delta-V's calculated using Oldmiss of WinSmash. Offset impact was checked since it was deemed appropriate in this case. The crush profile used in this case was estimated from measuring above the bumper level. The C-values used in the WinSmash program would result in a borderline reconstruction.

5

COLLISION SEQUENCE:

Pre-Crash: Tl

This two vehicle collision occurred in 1996 at 1813 hours. The collision occurred on a two-lane, undivided, winding desert road. The east/west roadway consists of an eastbound and a westbound travel lane. This roadway is 7 M (22.9 ft) wide with an asphalt surface. The eastbound travel lane had a slight uphill grade, and the westbound travel lane had a slight downhill grade.

Crash: The driver of Vehicle 1 saw Vehicle 2 come across the center double yellow line, but did not have time to take evasive action. The driver of Vehicle 2 lost control of the vehicle and it entered the eastbound travel lane, directly in front of Vehicle 1. The left front of Vehicle 1 struck the right front quarter panel of Vehicle 2. Both air bags in Vehicle 1 deployed at this point. A WinSmash run determined that Vehicle 1 sustained a -36.6 km/h (22.7 mph) longitudinal velocity change. Vehicl1 continued generally forward while Vehicle 2 was rotated counterclockwise, and there was a second impact, a "side slap" between the left side of Vehicle 1 and the right rear side of Vehicle 2.

Post Crash: Vehicle 1 moved forward in an easterly direction and ran off the road and came to final rest heading northeast on the dirt shoulder. After the secondary impact, Vehicle 2 rotated counterclockwise approximately 120 degrees, and came to final rest heading south-west across the westbound travel lane.

The driver of Vehicle 1 noted that there was smoke still coming out of the driver's air bag. There was an odor of gun powder and he thought that the air bag was going to catch fire.

RESCUE ACTIVITIES:

Rescue activities

Event	Event Time
Accident	1813
Rescue dispatched	1838
Helicopter dispatched	1838
Rescue arrived	1843
Helicopter arrived	1858
Helicopter left scene	1903
Helicopter arrived at hospital	1908
Time of Death	1000, on 8/ - /96

The right front occupant of Vehicle 1 was treated initially at the scene by an off duty paramedic who performed CPR for 15 minutes. R/F occupant was then taken to an area hospital via helicopter. The next day, he was transported via helicopter to an pediatric intensive care unit of another hospital. The drivers of Vehicle 1 and Vehicle 2 were transported via ground ambulance to an area hospital. The driver of Vehicle 1 was hospitalized for approximately a month. The driver of Vehicle 2 was hospitalized overnight and then released.

Occupant

Kinematics:

Driver, Vehicle 1 - The driver was seated on a split bench in a normal, upright seated position. At impact, it appears that the driver had his right foot on the accelerator pedal and his left foot on the floor. Both hands were on the steering wheel. He was properly restrained by the available lap/shoulder restraint. During the on-site inspection, it appeared that the left front split bench seat had been adjusted just rearward of the mid-point seat track position. The adjustable seat back recline appeared to have been in a normal upright position. The seat back recline angle was measured at 10 degrees.

At impact, the driver braced. He was projected forward and to the left. His torso loaded the lap/shoulder restraint and his left arm, and face came into contact with the deploying air bag. The watch on his left arm was damaged due to contact with the air bag. It was somehow knocked off his arm, and it can be seen in photo 015. He was wearing glasses and the frames were bent by the contact with the air bag. He does not remember if they were knocked off, but no injuries occurred. He sustained injuries consisting of lacerations to the back of his head and arm. He does not remember having lacerations or bleeding, but there were blood stains on the driver's air bag, lap belt and seat. The laceration to the back of the head may have been caused by the plastic cover across the top window frame. It had been displaced laterally towards the driver. He also sustained three fractured ribs on his right side which were caused by loading on the lap/shoulder restraint. He had a fractured metatarsal on his right foot that was caused when the toe pan intruded and contacted the brake and accelerator pedals. The side slap impact resulted in a fractured left hip. He had abrasions to his chest, and left lower side from loading on the lap/shoulder restraint and air bag. He was transported to an area hospital via ground ambulance and he was hospitalized for approximately a month. Due to his hip replacement, he was in rehabilitation for approximately another month.

Occupant

Kinematics: RF Occupant, Vehicle 1 - The driver stated that the right front occupant was seated in an upright normal position with his back up against the right front seat back, and that the lap/shoulder restraint was worn in a normal fashion. The right front split bench seat had been adjusted just rearward of the mid-point seat track position. The adjustable seat back recline was reclined rearward, and the angle was measured at 33 degrees. The inspection of the right front lap/shoulder restraint, and injuries are consistent with him wearing the lap/shoulder restraint. The belt showed curling and stretching from loading. The D-ring was abraded by the seat belt webbing, and the plastic molding around the lower seat belt retracting mechanism was broken due to heavy loading (see photos 99-105). There was no pre-impact braking.

> At impact with Vehicle 2, the right front occupant began to move forward closer to the air bag, and loaded heavily on the lap/shoulder restraint. The right front air bag deployed and contacted his chest area. The driver stated that there were no noticeable contusions, abrasions, or redness about the child's face. As the air bag continued its unfolding sequence, it "snapped" and accelerated the child's head rearward. One of the treating physicians indicated that the child "sustained massive whiplash type injuries to his head and neck which caused cerebral edema which resulted in his death."

> As the head was accelerated rearward, the brain struck the front of the skull causing massive brain edema, subdural hemorrhage, ventricular hemorrhage, and subarachnoid hemorrhage. This led to anoxic encephalopathy, and then brain death. The child also sustained bilateral pulmonary contusions to the upper lobe, and a cardiac contusion as a result of contact with the air bag. He had multiple contusions and abrasions about his chest and lower abdomen attributed to the seat belt webbing.

> After the collision the child was slumped over, still belted in a seated position and unconscious. He was not in the back seat of the vehicle as noted in several of the medical records. An off duty paramedic arrived on scene shortly after the collision, and performed CPR for some 15 minutes. When rescue personnel arrived on scene the 7-year-old was unconscious, pale, cyanotic, and in full cardiac arrest. He arrived at the ER in the same condition, and he never regained consciousness. He expired seven days later.

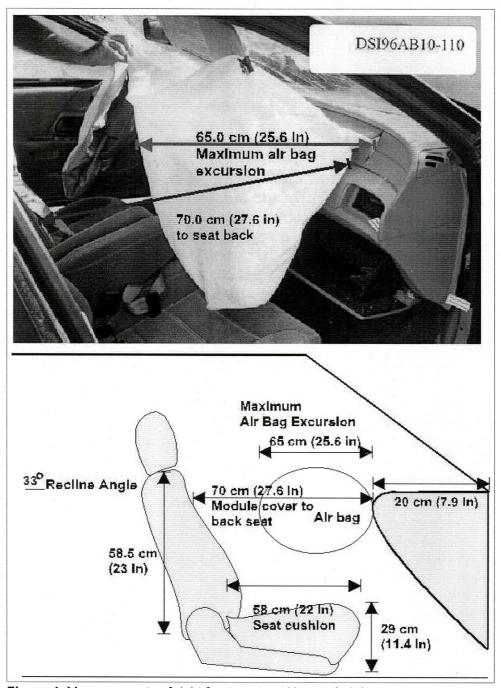


Figure 4. Measurements of right front seat position and air bag.

Air bag System:

Vehicle 1 was equipped with two air bags, one in the steering wheel hub and one on the right front passenger side. The driver's air bag had a 58.5 cm (23 in) diameter. There were two symmetrical module cover flaps. The upper cover measured 20.5 (8.1 in) x 16.5 cm (6.5 in). There were two air vent ports at the 11 and 1 o'clock positions. The lower cover measured 20.5 (8.1 in) x 7.9 cm (3.1 in).

The right front passenger's air bag was a mid-mounted configuration. The air bag measured $81.5 \text{ cm} (32.1 \text{ in}) \times 40 \text{ cm} (15.7 \text{ in})$. There were two symmetrical module cover flaps. The upper flap cover measured $31.3 \text{ cm} (12.3 \text{ in}) \times 5.5 \text{ cm} (2.2 \text{ in})$, and the lower flap cover measured $31.3 \text{ cm} (12.3 \text{ in}) \times 5.5 \text{ cm} (2.2 \text{ in})$. There were two air vent ports on the left side (inboard) of the air bag, at the 10 and 8 o'clock positions.

The driver of Vehicle 1 noted that there was smoke still coming out of the driver's air bag. There was an odor of gun powder and he thought that the air bag was going to catch fire.

Scene Clearance:

Both vehicle were towed from the scene due to damage and were placed in police storage. Vehicle 1 was then taken to the office of the attorney representing the occupants, and was stored outdoors for several months prior to the vehicle inspection. Vehicle 2 was then taken to a auction salvage lot, were it was sold.

Safety Standards:

There were no violations of Federal Motor Vehicle Safety Standards and Regulations found during the inspection of Vehicle 1.

DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

DRIVER OCCUPANT 2

Age/Sex: 68/Male 7/Male

Seated Position: Left front Right front

Seat Type: Split Bench Split Bench

Height: 178 cm (70 in) 137 cm (54 in), per autopsy

report

Weight: 100 kg (220 lbs) 26 kg (57 lbs), per autopsy report

Additional Measurements:

Erect Sitting Height NA 65.8 cm (25.9 in)¹

Buttock-knee Length NA 39.1 cm (15.4 in)¹

Occupation: Retired Not employed

Pre-existing Medical Unknown Significant history of wheezing

Condition: episodes, and had an unspecified

head injury at age 5²

Alcohol/Drug Involvement: None NA

Driving Experience: ≈52 years NA

Body Posture: Normal, upright Normal, upright

Hand Position: Both on steering wheel, NA

Foot Position: Right foot on accelerator NA

Restraint Usage: Lap/shoulder belt used Lap/shoulder belt used

Additional Occupants: None None

¹Anthropometry of Infants, Children, and Youths to Age 18 for Product Safety Design

²As noted on Hospital records

DRIVER AND OTHER OCCUPANTS (con't):

VEHICLE 2

DRIVER

Age/Sex: 28/Male

Seated Position: Left front

Seat Type: Bucket with folding back

Height: 185 cm (73 in)

Weight: 73 kg (160 lbs)

Occupation: Unknown

Pre-existing Medical

Condition:

Unknown

Alcohol Involvement: None

Driving Experience: ≈ 5 years

Body Posture: Unknown

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: Lap/shoulder restraints used

traffic collision report

Additional Occupants: None

INJURIES:

Vehicle 1

	<u>INJURY</u>	OIC CODE	<u>ICD-9</u>	SOURCE
DRIVER:	Fractured left hip	852600.2,2	820.8	Left side door
	3 fractured ribs on the right side	450220.2,1	807.03	Seat belt
	Fractured right metatarsal	852200.2,1	825.20	Foot pedal
	Abrasions across chest	490202.1,4	911.0	Seat belt webbing/Air bag
	Abrasion to lower left side of abdomen	590202.1,8	911.0	Seat belt webbing
	Laceration to back of head	190600.1,3	873.0	Window frame plastic covering
	Laceration to left arm	790600.1,2	880.03	Air bag
R/F OCCUPANT:	Massive brain edema	140674.5,9	348.5	Air bag
	Loss of consciousness/Unconscious on admission or initial observation at scene. Length of consciousness > 24 hours.	160818.5, 0	854.05	Air bag
	Subdural hemorrhage	140650.4,9	852.25	Air bag
	Ventricular hemorrhage	140678.4,9	852.25	Air bag
	Bilateral pulmonary contusion to upper lobe	441410.4,3	518.4	Air bag
	Cardiac contusion	441002.3,4	861.01	Air bag
	Subarachnoid hemorrhage	140684.3,9	852.05	Air bag
	Multiple abrasions over the right lower abdomen	590202.1,8	911.0	Seat belt webbing

Multiple contusions over the right lower abdomen	590402.1,8	922.2	Seat belt webbing
Contusions over chest in the seat belt position	490402.1,4	922.1	Seat belt webbing

INJURIES:

Vehicle 2

	<u>INJURY</u>	OIC CODE	<u>ICD-9</u>	SOURCE
DRIVER:	Laceration to back of head	190600.1, 3	873.0	Unknown
	Contusion to leg	890402.1,9	924.5	Unknown
	Contusion to chest	490402.1,4	922.1	Seat belt webbing

Abbreviations Used In Scene And Photographic Documentation

ft Feet in Inches

AIS Abbreviated Injury Scale

BLF Begin Left Front
BLR Begin Left Rear
BRF Begin Right Front
BRR Begin Right Rear
CBE Cab Behind Engine
CCW Counterclockwise

CDC Collision Deformation Classification

CG Center of Gravity

CM Centimeter

COE Cab Over Engine

CW Clockwise

E, EB East, Eastbound **ELF** End Left Front ELR End Left Rear **End Right Front ERF ERR** End Right Rear FRP **Final Rest Position** I Interstate Highway IP **Intermediate Point**

KG Kilogram

KPH Kilometers Per Hour

LF Left Front
LR Left Rear
M Meter

N, NB North, Northbound

NE Northeast NW Northwest

PDOF Principal Direction of Force

POI Point of Impact
R Radius of Curvature

RF Right Front
RL Reference Line
RP Reference Point
RR Right Rear

S, SB South, Southbound

SE Southeast SW Southwest

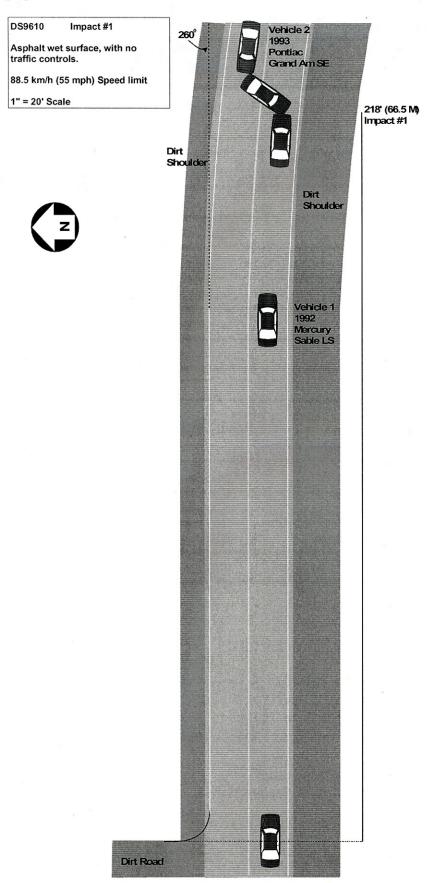
T Time or Elapsed Time (in seconds)

V1 Vehicle Number 1 W, WB West, Westbound

COLLISION MEASUREMENTS Taken from the Police Accident Report

Reference Point: East Curb Line of North/South roadway	Reference Line: South Fog Line		
ITEM	Distance and Direction from RP	Distance and Direction from RL	
Area of Impact #1 Front of Vehicle 1 and right side of Vehicle 2	66.4 m (218') East	2.3 m (7'7") North	
Point of rest for Vehicle 1			
R/F tire	69.8 m (229') East	3.4 m (11'2") South	
R/R tire	67.4 m (221') East	4.9 m (16') South	
L/F tire	69.6 m (226'8") East	2.2 m (7'2") South	
L/R tire	66.4 m (218') East	3.4 m (11'3") South	
Point of rest for Vehicle 2			
R/F tire	67.9 m (222'11") East	6 m (19'7") North	
R/R tire	70.1 m (230') East	At the North fog line	
L/F tire	68.9 m (226') East	3.3 m (13'10") North	
L/R tire	70.6 m (231'8") East	6 m (19'9") North	

Scene Diagram page 1



Scene Diagram page 2

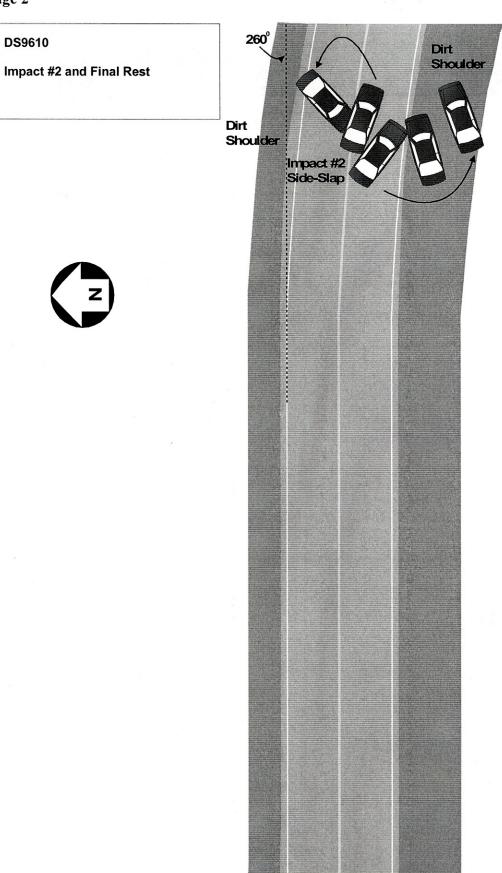


PHOTO INDEX

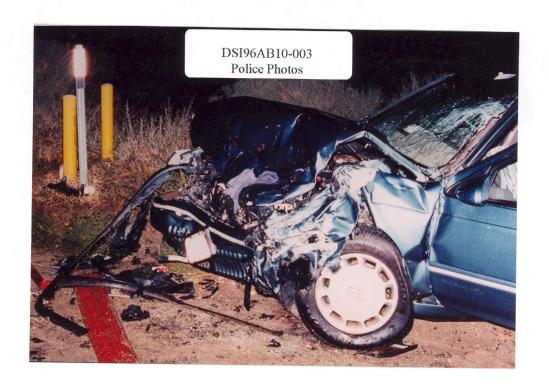
Case No. DS9610

РНОТО NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
			The following photographs were taken by the police at the scene, and at the tow yard of both vehicles.
001-005	1		Exterior of vehicle at final rest.
006-010	1		Interior of vehicle, driver's position.
011-015	1		Interior of vehicle, at right front position.
019-033	2		Exterior of vehicle, both at final rest and the tow yard.
034-039	2		Interior of vehicle. **Note photo 038, speedometer locked at 128.7 km/m (80 mph).
			The following photographs were taken by the investigator.
040-042	1	East	Direction of travel towards impact area.
043	1	East	Impact area.
044	1	East	Final rest area.
045	1	West	Opposite direction of travel from final rest area.
046-047	2	West	Direction of travel towards impact area.
048	2	South-West	Impact area #1.
049	2	West	Counterclockwise rotation.
050-051	2	South-West	Final rest area. Tires marked per police measurements.
052	2	North-East	Opposite direction from final rest.
053	2	West	Opposite direction of travel.
054-072	1	NA	Exterior damage.
073-079	1	NA	Exterior damage with crush measuring stands at bumper mounting brackets, and radiator support rail.

080-097	1	NA	Interior looking at driver's area.
098-113	1	NA	Interior looking at right front area.
114-120	1	NA	Interior looking at driver's area and roof.
121-123	1	NA	Interior looking at right front area.
124-126	1	NA	Interior rear seats.

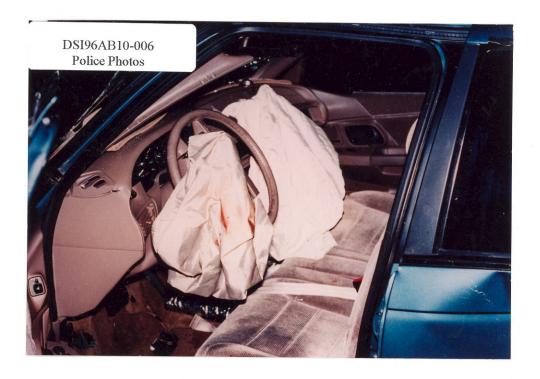






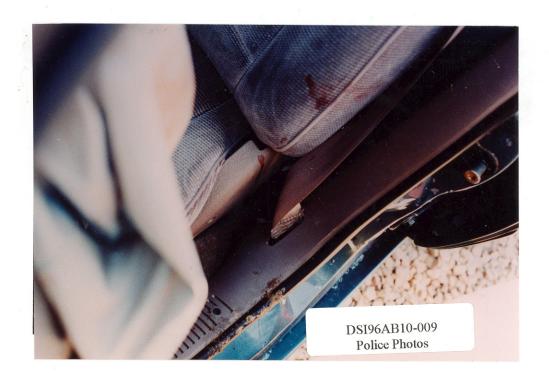


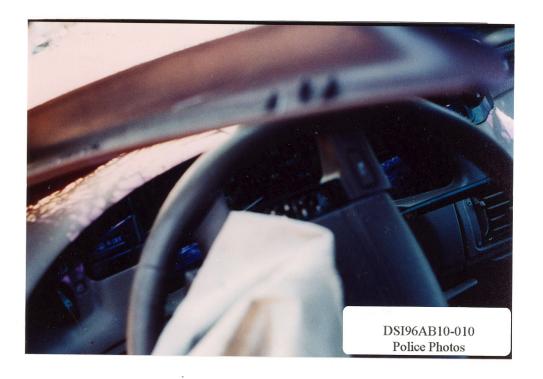


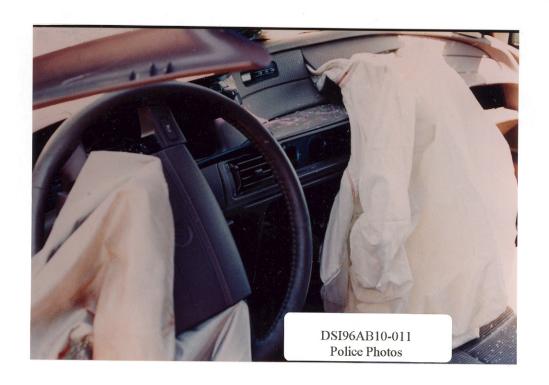












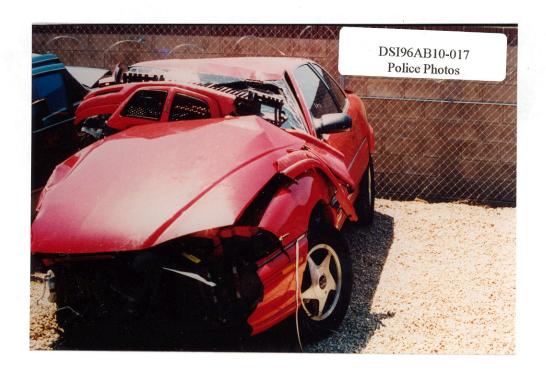


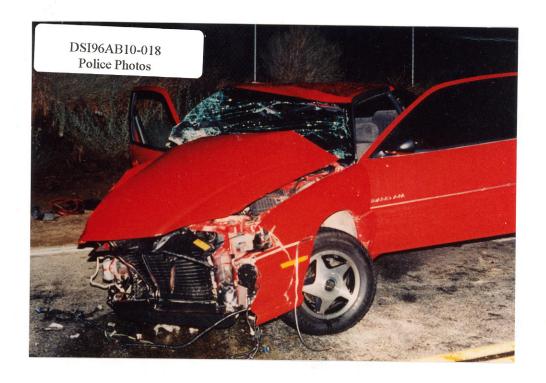


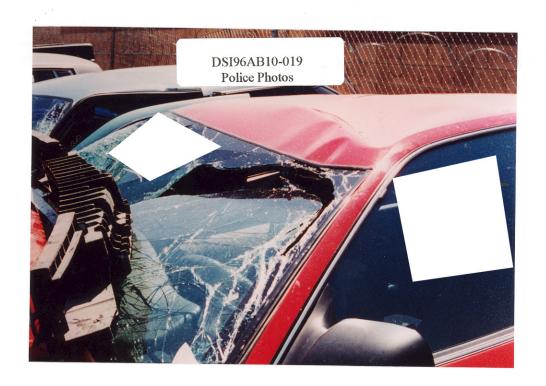


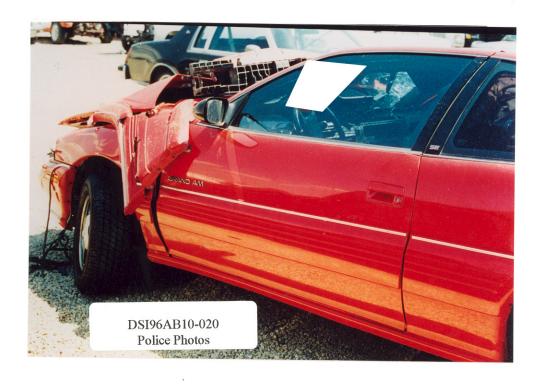






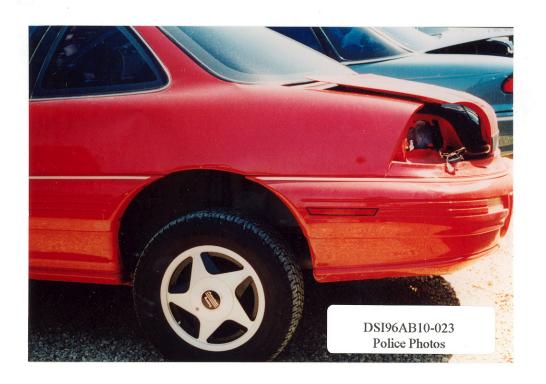




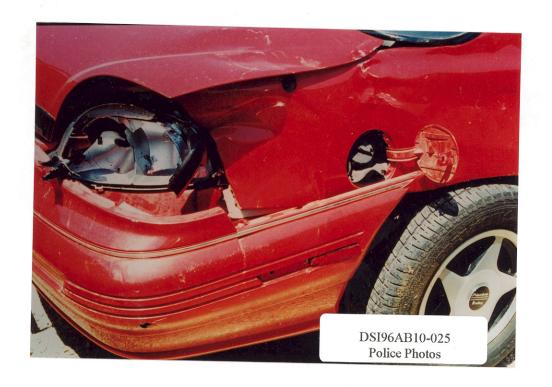
















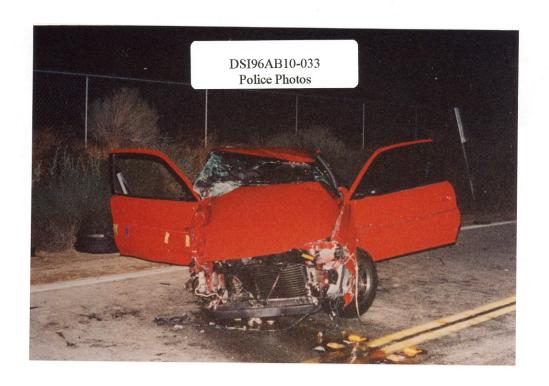


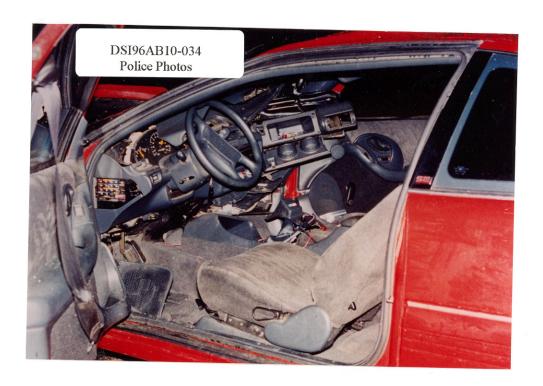


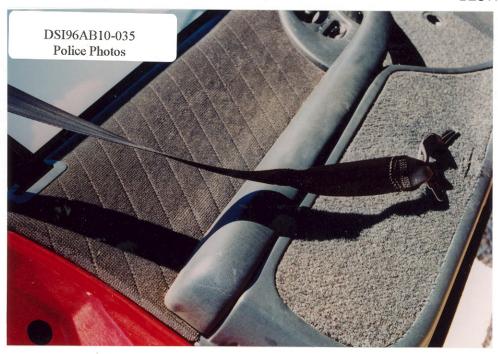


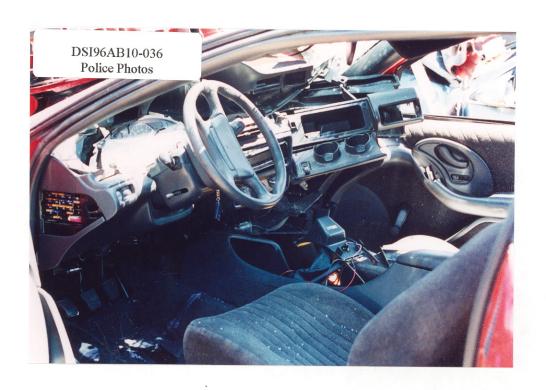


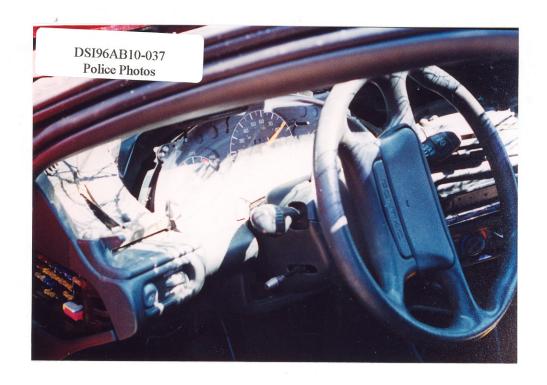


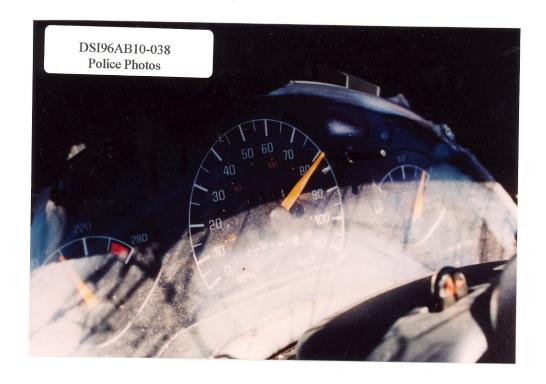














































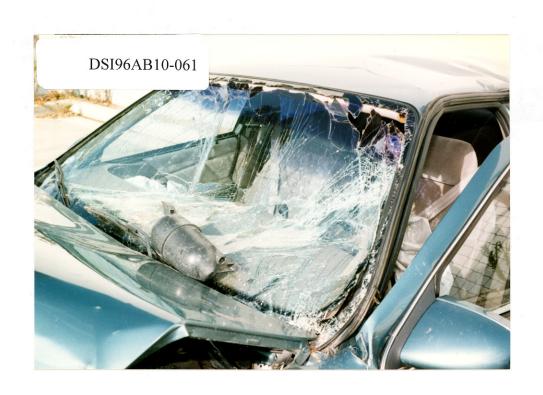


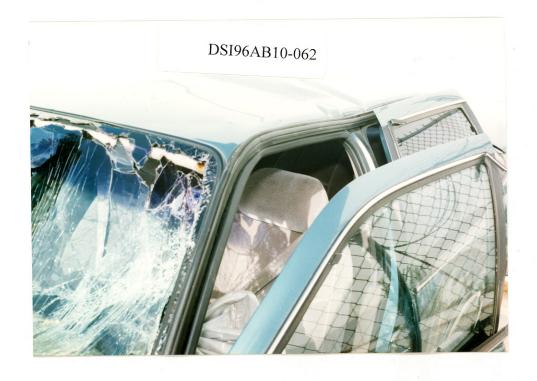


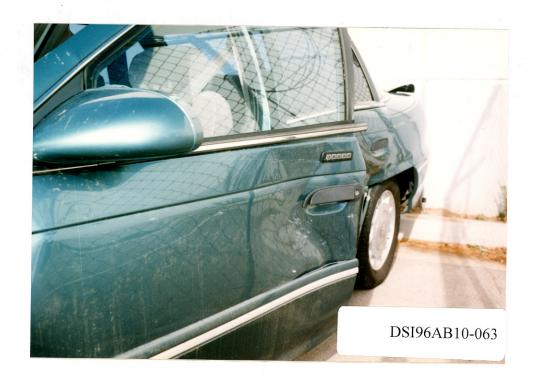






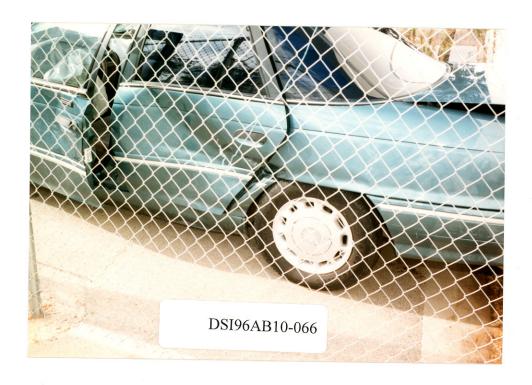


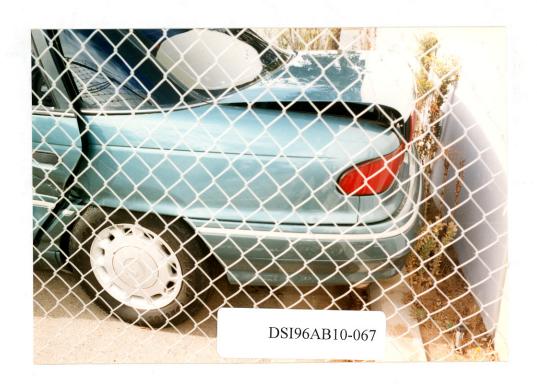












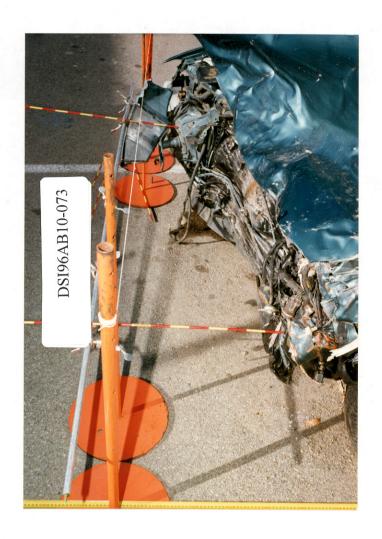






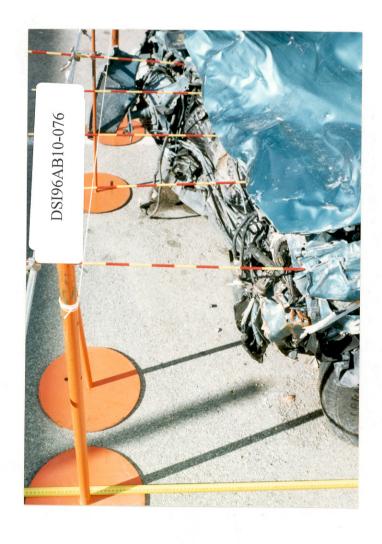




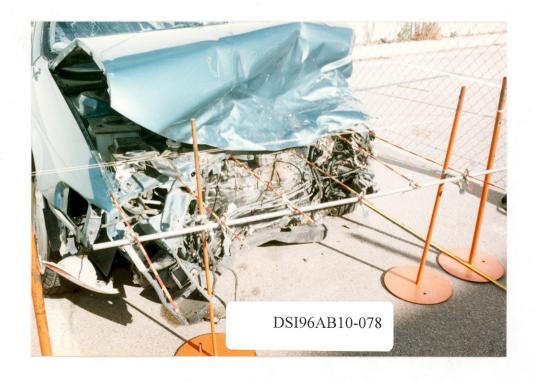


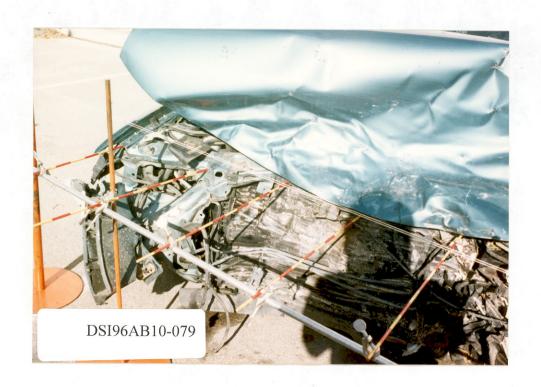












































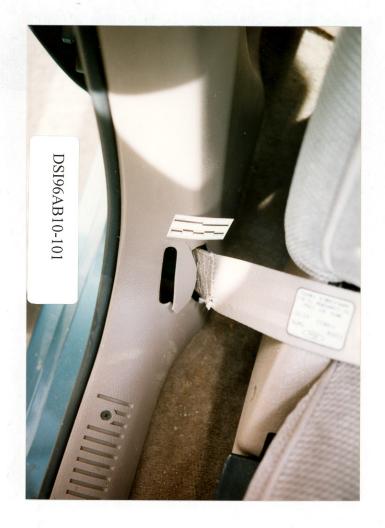






























































ACCIDENT EODM

Administration	ACCIDENT FORM	CRASHWORTHINESS DATA SYST
Primary Sampling Unit Number	SPECI	AL STUDIES - INDICATORS
2. Case Number - Stratum Die 9 டி ப்பூ	has been cor	ch special study (SS15-SS18 below) than npleted; code 1 for the checked specia
IDENTIFICATION	studies and 0	for the special studies not checked.
Number of General Vehicle Forms Submitted	6 ss	S15 Administrative Use
4. Date of Accident (Month,Day,Year)	7 SS	616 Pedestrian Crash Data Study ota for this special study available a separate file.)
5. Time of Accident	3 <u>1 3</u> 8 ss	17 Impact Fires ϕ
Code reported military time of accide	ent. 9 SS	18 Unsafe Driver Actions
NOTE: Midnight = 2400 Unknown = 9999	10 SS	19
		NUMBER OF EVENTS
	11. Number in This A	of Recorded Events
	Code the in this ac	number of events which occurred cident.
	ACCIDENT EVENTS	
For each event that occurred in the accident, involved vehicle or object in the right column	code the lowest numbered vehi	cle in the left columns and the other
Accident Event		cle Number General
A	ass Of Area of Phicle Damage Object	or Class Of Area of et Contacted Vehicle Damage
12. 0 1 13 cb / 14 d) 3 15 F 16	ф2 4 2 0

Seque Numi		Vehicle Number	Class Of Vehicle	Area of Damage	or Object Contacted	Class Of Vehicle	Area of Damage
120	1	13. <u>ϕ </u>	14. <u>Ø</u> <u>3</u>	15. <u>F</u>	16. <u>¢</u> <u>2</u>	17. <u>\$\psi\$ 2</u>	18. 12
19. <u>0</u>	2 2	20. <u>\$\psi\$ 1</u>	21. <u>ф 3</u>	22. <u>L</u>	23. <u>\$\phi\$</u> 2	24. <u>\$\phi\$</u> 2	25. <u>R</u>
26. <u>0</u>	3 2	27	28	29	30	31	32
33. <u>0</u>	4 3	34	35	36	37	38	39
40. <u>0</u>	<u>5</u> 4	11	42	43	44	45	46
	IF GREATI	ER THAN FIVE EV	ENTS, CONTINUE	CODING ON T	HE ACCIDENT EVEN	NT SUPPLEMENT	

CODES	FOR CLASS OF VEHICLE
(00) Not a motor vehicle (01) Subcompact/mini (wheelbase < 254 cm) (02) Compact (wheelbase ≥ 254 but < 265 cm) (03) Intermediate (wheelbase ≥ 265 but < 278 cm) (04) Full size (wheelbase ≥ 278 but < 291 cm) (05) Largest (wheelbase ≥ 291 cm) (09) Unknown passenger car size (14) Compact utility vehicle (15) Large utility vehicle (≤ 4,500 kgs GVWR) (16) Utility station wagon (≤ 4,500 kgs GVWR) (19) Unknown utility type (20) Minivan (≤ 4,500 kgs GVWR) (21) Large van (≤ 4,500 kgs GVWR) (24) Van Based school bus (≤ 4,500 kgs GVWR) (28) Other van type (≤ 4,500 kgs GVWR) (29) Unknown van type (≤ 4,500 kgs GVWR) (30) Compact pickup truck (≤ 4,500 kgs GVWR)	(31) Large pickup truck (≤ 4,500 kgs GVWR) (38) Other pickup truck (≤ 4,500 kgs GVWR) (39) Unknown pickup truck type (≤ 4,500 kgs GVWR) (45) Other light truck (≤ 4,500 kgs GVWR) (48) Unknown light truck type (≤ 4,500 kgs GVWR) (49) Unknown light vehicle type (50) School bus (excludes van based)(> 4,500 kgs GVWR) (58) Other bus (> 4,500 kgs GVWR) (59) Unknown bus type (60) Truck (> 4,500 kgs GVWR) (67) Tractor without trailer (68) Tractor-trailer(s) (78) Unknown medium/heavy truck type (79) Unknown light/medium/heavy truck type (80) Motored cycle (90) Other vehicle (99) Unknown
CODES FOR GENE	PALADEA DE DAMAGE (GAD)
CDS APPLICABLE (0) Not a motor vehicle AND OTHER (N) Noncollision VEHICLES (F) Front TDC (0) Not a motor vehicle	RAL AREA OF DAMAGE (GAD) (R) Right side (L) Left side (B) Back (C) Rear of cab
APPLICABLE (N) Noncollision VEHICLES (F) Front (R) Right side	(B) Back of unit with cargo area (V) Front of cargo area (rear of trailer or straight truck) (T) Top (D) Back (rear of tractor) (U) Undercarriage (9) Unknown
CODES FOR VEHICLE (01-30) — Vehicle Number Noncollision (31) Overturn — rollover (excludes end-over-end) (32) Rollover — end-over-end (33) Fire or explosion (34) Jackknife (35) Other intraunit damage (specify): (36) Noncollision injury (38) Other noncollision (specify):	NUMBER OR OBJECT CONTACTED (57) Fence (58) Wall (59) Building (60) Ditch or culvert (61) Ground (62) Fire hydrant (63) Curb (64) Bridge (68) Other fixed object (specify):
(39) Noncollision — details unknown Collision With Fixed Object (41) Tree (< 10 cm in diameter) (42) Tree (> 10 cm in diameter) (43) Shrubbery or bush (44) Embankment (45) Breakaway pole or post (any diameter)	Collision with Nonfixed Object (70) Passenger car, light truck, van, or other vehicle not in-transport (71) Medium/heavy truck or bus not in-transport (72) Pedestrian (73) Cyclist or cycle (74) Other nonmotorist or conveyance
Nonbreakaway Pole or Post (50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but ≤ 30 cm in diameter) (52) Pole or post (> 30 cm in diameter) (53) Pole or post (diameter unknown) (54) Concrete traffic barrier (55) Impact attenuator	(79) Object fell from vehicle in-transport (88) Other nonfixed object (specify): (89) Unknown nonfixed object
(56) Other traffic barrier (includes guardrail) (specify):	(98) Other event (specify): (99) Unknown event or object

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number 2. Case Number	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown
VEHICLE IDENTIFICATION 4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify):	55 mph X 1.6093 = 489 kmph 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present
8. Vehicle Identification Number \[\begin{array}{cccccccccccccccccccccccccccccccccccc	(7) Not reported (8) No driver present (9) Unknown 16. Other Drug Specimen Test Result For Driver (0) No specimen test given
Unknown—Code all nines 9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	 (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify): (3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
 (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify):	17. Driver's Zip Code (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99998) No driver present
OFFICIAL RECORDS	(99999) Unknown
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present (9) Unknown
mph X 1.6093 = kmph	101 OHKHOAH

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 ĆJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,536 kgs GVWR)
- (23) Van based motorhome (≤ 4,536 kgs GVWR)
- (24) Van based school bus (≤ 4,536 kgs GVWR)
- (25) Van based other bus (≤ 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4.536 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR ≤ 8,845 kgs)
- (62) Single unit straight truck (8,845 kgs < GVWR ≤ 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

		_		
	PRECRASH ENVIRONMENTAL DATA	25	Boodway Conform Condition	.7 -
	1	7 20	. Roadway Surface Condition	_
19.	Relation To Interchange Or Junction	1	(1) Dry	
	(0) Non-interchange area and non-junction	1	(2) Wet	
	(1) Interchange area related	1	(3) Snow or slush	
	-		(4) Ice	
	Non-Interchange junctions	1	(5) Sand, dirt, or oil	
	(2) Intersection related	1	(8) Other (specify):	
	(3) Driveway, alley access related		(9) Unknown	
	(4) Other junction (specify)			
	(1) Callet Janotton (Specify)		11.1.0	1
	(5) Unknown type of junction	26	. Light Conditions	
	(o) Cinclowit type of junction		(1) Daylight	
	(9) Unknown		(2) Dark	
	(5) UNKNOWN		(3) Dark, but lighted	
			(4) Dawn	
20	T (1) 51		(5) Dusk	
20.	Trafficway Flow		(9) Unknown	
	(0) Not physically divided (two way traffic)			
	(1) Divided trafficway-median strip without positive			
	barrier	27	. Atmospheric Conditions	- 1
	(2) Divided trafficway-median strip with positive	-	(0) No adverse atmospheric-related driving	'
	barrier		conditions	
	(3) One way traffic	ı	(1) Rain	
	(9) Unknown	l	(2) Sleet/hail	
		1		
			(3) Snow	
21.	Number Of Travel Lanes Z	1	(4) Fog	
	(1) One	1	(5) Rain and fog	
	(2) Two		(6) Sleet and fog	
	(3) Three	ĺ	(7) Other (e.g., smog, smoke, blowing sand or	
	(4) Four		dust, etc.) (specify):	
	(5) Five	ĺ		
	(6) Six		(9) Unknown	
	(7) Seven or more	İ		
	(9) Unknown	28.	Traffic Control Device	Φ
		l	(0) No traffic control(s)	
	-		(1) Traffic control signal (not RR crossing)	
	Roadway Alignment Z	l	.	
	(1) Straight	1	Regulatory	
	(2) Curve right		(2) Stop sign	
	(3) Curve left		(3) Yield sign	
	(9) Unknown	ĺ	(4) School zone sign	
			(5) Other regulatory sign (specify):	
22	Pandunau Brafila	Ī	(5) Stron regulatory sign (specify).	
	Roadway Profile		(6) Warning sign (not RR crossing)	
	(1) Level		(7) Unknown sign	
	(2) Uphill grade (>2%)	l		
	(3) Hill crest		(8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)		controls (specify):	
	(5) Sag		10)	
	(9) Unknown		(9) Unknown	
24	Roadway Surface Type 2	00	T (! A	i
		29.	Traffic Control Device Functioning	42
	(1) Concrete		(0) No traffic control device	
	(2) Bituminous (asphalt)		(1) Traffic control device not functioning	
	(3) Brick or block		(specify):	
	4) Slag, gravel, or stone			
	5) Dirt		(2) Traffic control device functioning properly	
	8) Other (specify):		(9) Unknown	
1	9) Unknown			
				ĺ

	PF	RECRASH DRIVER RELATED DATA		S VEHICLE TRAVELLING
30.		er's Distraction/Inattention To Driving	(10)	Over the lane line on left side of travel lane Over the lane line on right side of travel lane
	(Pric	or To Recognition Of Critical Event)	1 712	Off the edge of the road on the left side
	(00)	No driver present	(13)	Off the edge of the road on the right side
	(01)	Attentive or not distracted	1 (14)	End departure
	(02)	Looked but did not see		Turning left at intersection
		Distractions	(16)	Turning right at intersection
	(03)	By other occupant(s), (specify):	(17)	Crossing over (passing through) intersection
	(/	= ,	(18)	This vehicle decelerating
	(04)	By moving object in vehicle (specify):	(19)	Unknown travel direction
			1 '	
	(05)	While talking or listening to cellular phone (specify	OTH	IER MOTOR VEHICLE IN LANE
		location and type of phone):	(50)	Other vehicle stopped
	(00)	And the state of t	(51)	Traveling in same direction with lower steady
	(00)	While dialing cellular phone (specify location and		speed
		type of phone):		Traveling in same direction while decelerating
	(07)	While adjusting climate controls	(53)	Traveling in same direction with higher speed
	(08)	While adjusting radio, cassette, CD (specify):		Traveling in opposite direction
	(55)	Trimo dajuoding radio, cassette, OD (specify).		In crossover
	(09)	While using other device/controls integral to		Backing
		vehicle (specify):	(59)	Unknown travel direction of other motor vehicle in
	(10)	While using or reaching for device/object brought	į	lane
		into vehicle (specify):		
	(11)	Sleepy or fell asleep		IER MOTOR VEHICLE ENCROACHING INTO
	(12)	Distracted by outside person, object, or event	LAN	
	(40)	(specify):	(60)	From adjacent lane (same direction)—over left
	(13)	Eating or drinking	(04)	lane line
	(14)	Smoking related	(61)	From adjacent lane (same direction)—over right
	(97)	Distracted/inattentive, details unknown	(00)	lane line
	(90)	Other, distraction (specify):	(62)	From opposite direction—over left lane line
	(99)	Unknown	(63)	From opposite direction—over right lane line
		V 10	(64)	From parking lane
31.	Pre-t	Event Movement (Prior to	(65)	From crossing street, turning into same direction
	Kecc	ognition of Critical Event)	(00)	From crossing street, across path
	(01)	No driver present	(67)	From crossing street, turning into opposite
	(02)	Going straight Decelerating in traffic lane	(60)	direction
	(03)	Accelerating in traffic lane	(70)	From crossing street, intended path not known
	(04)	Starting in traffic lane	(70)	From driveway, turning into same direction
	(05)	Stopped in traffic lane	(71)	From driveway, across path
	(06)	Passing or overtaking another vehicle	(72)	From driveway, turning into opposite direction
	(07)	Disabled or parked in travel lane	(73)	From driveway, intended path not known
	(08)	Leaving a parking position	(74)	From entrance to limited access highway
	(09)	Entering a parking position	(76)	Encroachment by other vehicle—details unknown
	(10)	Turning right	PEN	ESTRIAN DEDALOVOLIST OR OTHER
	(11)	Turning left		ESTRIAN, PEDALCYCLIST, OR OTHER IMOTORIST
	(12)	Making a U-turn		Pedestrian in roadway
	(13)	Backing up (other than for parking position)	(81)	Pedestrian approaching roadway
		Negotiating a curve	(82)	Pedestrian—unknown location
		Changing lanes	(83)	Pedalcyclist or other nonmotorist in roadway
	(10)	Merging Supposeful excidence many and a supposeful excidence m	(00)	redaicyclist of outer nonlinotonst in roadway
	(17)	Successful avoidance maneuver to a previous critical event	(specify):	
		Other (specify):	(84)	Pedalcyclist or other nonmotorist approaching
	(99)	Unknown	(04)	roadway, (specify):
	` '	/ 5	(85)	Pedalcyclist or other nonmotorist—unknown
		al Precrash Event <u> </u>	(,	location
	THIS	VEHICLE LOSS OF CONTROL DUE TO:	(specify):	
	(01)	Blow out or flat tire	(1 7 /-	
	(02)	Stalled engine	OBJ	ECT OR ANIMAL
		Disabling vehicle failure (e.g., wheel fell off)		Animal in roadway
	(04)	(specify):		Animal approaching roadway
	(U4)	Non-disabling vehicle problem (e.g., hood flew up)	(89)	Animal—unknown location
	(05)	(specify): Poor road conditions (puddle, pot hole, ice, etc.)	(90)	Object in roadway
	,00)	(specify):	(91)	Object approaching roadway
	(06)	Traveling too fast for conditions	(92)	Object—unknown location
	(80)	Other cause of control loss (specify):	(98)	Other critical precrash event (specify):
	(09)	Unknown cause of control loss	(99)	Unknown

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page)
34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify): (9) Precrash stability unknown	(00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

Category	Configur- ation	ACCIDENT TYPES (includes intent)
<u>.</u>	A. Right Roadside Departure	DRIVE OFF CONTROL/ TRACTION LOSS WITH VEH. PED. ANIM. OTHER UNKNOWN
I Single driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS SPECIFICS ROAD TRACTION LOSS WITH VEH. PED. ANIM. OTHER UNKNOWN
	C. Forward Impact	PARKED VEHICLE STA. OBJECT PEDESTRIAN/ ANIMAL DEPARTURE SPECIFICS UNKNOWN
ficway sction	D. Rear-End	20 22 24 26 25 28 29 (EACH• 32) (EACH• 33) STOPPED 21,22,23 SLOWER 25,26,27 DECEL 29,30,31 SPECIFICS UNKNOWN
Il Same Trafficway Same Direction	E. Forward Impact	34 35 36 37 38 40 (EACH• 42) (EACH• 42) CONTROL/ TRACTION LOSS CONTROL/ TRACTION LOSS WITH VEHICLE WITH OBJECT (EACH• 42) (EACH• 42) SPECIFICS SPECIFICS UNKNOWN WITH OBJECT
	F. Sideswipe/ Angle	46 45 45 47 (EACH• 48) (EACH• 49) SPECIFICS OTHER SPECIFICS UNKNOWN
ay cflon	G. Head-On	(EACH • 52) (EACH • 53) LATERAL MOVE SPECIFICS OTHER SPECIFICS UNKNOWN
Same Trafficway Oppostle Direction	H. Forward Impact	54 55 56 57 58 60 (EACH • 62) (EACH • 62) (EACH • 62) (EACH • 63) (EACH • 63) (EACH • 63) (EACH • 63) (EACH • 64)
=	I. Sideswipe/ Angle	65 (EACH • 66) (EACH • 67) SPECIFICS OTHER SPECIFICS UNKNOWN
N Change Trafficway Vehicle Turing	J. Turn Across Path	68 70 73 72 (EACH • 74) (EACH • 75) INITIAL OPPOSITE DIRECTIONS INITIAL SAME DIRECTION SPECIFICS OTHER UNKNOWN
	K. Turn Into Path	77 79 76 78 80 81 82 (EACH+ 84) (EACH+ 85) TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTION OTHER UNKNOWN
v Intersecting Paths (Vehice Damage)	L. Straight Paths	87 89 (EACH • 90) SPECIFICS OTHER SPECIFICS UNKNOWN
Vi. Miscel- Igneous	M. Backing Etc.	92 93 OTHER VEHICLE OR OBJECT 98 Other Accident Type 99 Unknown Accident Type 99 Unknown Accident Type 99 Unknown Accident Type 90 No impact

	OCCUPANT RELATED	44. Vehicle Cargo Weight to pearest
37.	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	10 kilograms. (000) Less than 5 kilograms (454) 4,536 kilograms or more (999) Unknown
38.	Number of Occupants This Vehicle (00-96) Code actual number of occupants	,lbs X .4536 =,kgs Source: <i>INSPECT10</i>
	for this vehicle (97) 97 or more (99) Unknown	ROLLOVER DATA 45. Rollover
39.	Number of Occupant Forms Submitted ψ	(OO) No rollover (no overturning)
	AIR BAG RELATED	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns
40.	Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts	(17) Rollover, 17 or more quarter turns (specify): (98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown 46. Rollover Initiation Type
41.	Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed	(00) No rollover (01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over
	Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed	(05) Fall-over (06) Bounce-over (07) Collision with another vehicle
	Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if	(08) Other rollover initiation type specify): (98) Rolloverend-over-end (99) Unknown rollover initiation type 47. Location of Rollover Initiation
	deployed (8) Air bag(s) deployed, details unknown (9) Unknown	(0) No rollover (1) On roadway (2) On shoulder—paved
42.	Air Bag(s) Deployment, Other Than First Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of	(3) On shoulder—unpaved (4) On roadside or divided trafficway median (8) Rolloverend-over-end (9) Unknown
	impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
	 (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) 	49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover
	(5) Unknown if deployed(7) Nondeployed(9) Unknown	(1) Wheels/tires (2) Side plane (3) End plane
	Specify type of "other" air bag present:	(4) Undercarriage (5) Other location on vehicle (specify):
		(6) Non-contact rollover forces (specify):
	VEHICLE WEIGHT ITEMS	(8) Rolloverend-over-end (9) Unknown
43	Code weight to nearest 10 kilograms. (045) Less than 454 kilograms (612) 6,124 kilograms or more (999) Unknown	50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rollover-end-over-end (9) Unknown roll direction
	$\frac{43.148}{\text{lbs } \times .4536} = \frac{1.428}{\text{kgs}}$ Source:	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
Noncollision	(59) Building (60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(32) No rollover impact initiation (end-over-end)	• • • • • • • • • • • • • • • • • • • •
(34) Jackknife	(62) Fire hydrant (63) Curb
(O-1) OUCKNIIIC	(64) Bridge
Collision With Fixed Object	(69) Other fixed chiese (see alf.)
(41) Tree (≤ 10 cm in diameter)	(68) Other fixed object (specify):
(42) Tree (> 10 cm in diameter)	(60) Halmann Grand although
(43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	Calliatan with Namethand Obtace
(TT) LITIDATIKITICITE	Collision with Nonfixed Object
(AE) Breekensen mele en meet ten alle en a	(70) Passenger car, light truck, van, or other
(45) Breakaway pole or post (any diameter)	vehicle not in-transport
Manharat D. D. D.	(71) Medium/heavy truck or bus not in-transpor
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
(51) Pole or post (> 10 cm but ≤ 30 cm in	(78) Trailer, disconnected in transport
diameter)	(79) Object fell from vehicle in-transport
(52) Pole or post (> 30 cm in diameter)	(88) Other nonfixed object (specify):
(53) Pole or post (diameter unknown)	
	(89) Unknown nonfixed object
(54) Concrete traffic barrier	(10)
(55) Impact attenuator	(98) Other event (specify):
(56) Other traffic barrier (includes guardrail)	(our other over (apoeny).
(specify):	(99) Unknown event or object

	OVERRIDE/UNDERRIDE (THIS VEHICLE)	A COLDENIA DECONICEDITATION DECORANGE
	OVERMIDE/ONDERMIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
51.	Front Override/Underride (this Vehicle)	
52.	Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride	58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection
	Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
	Underride (see specific CDC) (Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
	(7) Medium/heavy truck or bus override (of any configuration)(9) Unknown	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction technique, regardless of adequacy of damage data.
54.	Values: (000)-(359) Code actual value (996) Non-horizontal impact (997) Noncollision (998) Impact with object (999) Unknown Heading Angle For This Vehicle Heading Angle For Other Vehicle RECONSTRUCTION DATA Towed Trailing Unit	 (05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify):
	(0) No towed unit (1) Yes—towed trailing unit (9) Unknown	
	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
	Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted < 45 degrees (4) Tilted ≥ 45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
	(9) Unknown	

COMPUTER GENERATED CRASH SEVERITY				
Highest 59. Total Delta V	63. Impact Speed Highest 9 9 8			
39.Ø Nearest kmph (highest)	Nearest kmph (highest)			
Nearest kmph (secondary)	Nearest kmph (secondary)			
(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown Highest	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown			
60. Longitudinal Component of Delta V	DELTA V CONFIDENCE LEVEL			
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable			
61. Lateral Component of Delta V Highest - 4 1 3	OTHER SPEED ESTIMATE			
$\frac{13.3}{13.3}$ Nearest kmph (highest)	Highest 65. Barrier Equivalent Speed			
Nearest kmph (secondary)	<u>\$22</u>			
(NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown	Nearest kmph (highest) Nearest kmph (secondary)			
Highest 62. Energy Absorption	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown			
5 <u>3,-49</u> Nearest 100 joules (highest)				
Nearest 100 joules (secondary)				
(NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown				

ESTIMATED DELTA V **INSPECTION TYPE** 66. Estimated Highest Delta V (Researcher 67. Type of Vehicle Inspection Determined) (0) No inspection (0) Reconstruction Delta V coded (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): Estimated Delta V (1) Less than 10 kmph (3) Complete inspection (2) \geq 10 kmph but < 25 kmph (3) \geq 25 kmph but < 40 kmph (4) \geq 40 kmph but < 55 kmph **DELTA V EVENT NUMBER** (5) ≥ 55 kmph Other estimates of damage severity 68. Delta V Event Number (6) Minor Code the accident event sequence (7) Moderate number that resulted in the Delta V that (8) Severe has been coded above for this vehicle (99) Unknown (9) Unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67 = 0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

U.S. Department of Transportation National Highway Traffic Safety

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration	n ' '			· •	- CLL		•	CRAS	HWORTH	INESS DAT	TA SYSTEM
1. Prima	ary Sampling Unit Nu	mber			3. Vehic	le Numb	per			4	51
2. Case	Number - Stratum	DS	9614								
			VEHICLE	IDENT	IFICAT	ΓΙΟΝ					
VIN 1	<u>melm</u>	534	5 N	6 X	XX	_ ` _\	<u> </u>		Model	Year _	<u> </u>
I	ake (specify): <u>ME</u>							y): <u>5</u> 4		(LS	
			Ĺ	OCAT	OR						
Locate the	e end of the damage ware amaged axle for side	vith respect impacts.	to the vehic	le's dam	aged ce	nter poir	nt or bur	nper cor	ner for	end impa	icts
Specific Imp		of Direct Dam	age		Locatio	n of Field	L		Location	of Max Cr	ush
ϕ I	BEGINS	QLF-1	Corner	ACC	ขรร	FRON	TEN	0	(A)	Baue F	RAME LA
42	BEGINS (REARW	no of		Ams_				Z	ne 2	
			AXLE				<u>-</u>				
NOTES:	Identify the plane at etc.) and label adjust	which the (JSH PROF C-measurem	ents are				above b	umper, a	at sill, ab	ove sill,
	Measure C1 to C6 fro	_			ront or re	ear impa	icts and	rear to 1	ront in :	side imp	acts.
l i	Free space value is d Individual C locations taper, etc. Record th	efined as the . This may	ne distance I include the	oetween followir	the bas	eline and per lead,	d the ori bumper	ginal bo	dv conto	our taker	n at the
- (Use as many lines/co			describe	each da	amage p	rofile.				
Specific Impact Number	Plane of Impact C-Measurements	Direct I Width (CDC)	Damage Max Crush	Field	C ₁	C ₂	C ₃	C ₄	C ₅	Ce	₫ ,D
фI	BUMPER.	117	415	117	41.5	13.7					
	BRACKETS				.,,,,					·	
	FREE SPACE		31.5		31.5	31.5					
	STAND ADJ.		415. p			+15.0					
···	CRUSH		25.ф		25.0						-14.1
da	SiZL	1.6 5	2 1								
φ2	SILL	11 <i>7.P</i>	Zine Z	154							-1.62·1
d1	RADIATOR RAIL	115		132	49.1	455	397	36.4	784	156	
	FRES SPACE									40.5	
	STAND ANT				+15	1	+.=	+,-	+.~	+1	

23.6

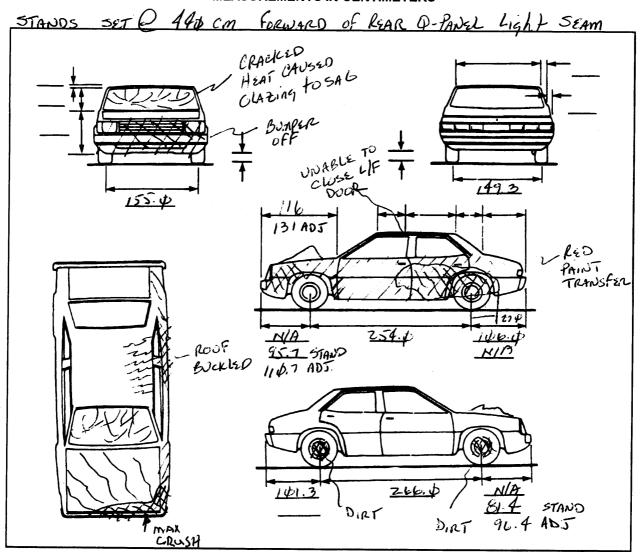
25.2

26.1

CRUSH

VEHICLE DAMAGE SKETCH TIRE-WHEEL DAMAGE **ORIGINAL SPECIFICATIONS** WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or restricted deflated 269.2 Wheelbase cm displaced rear axles only) RF ± Overall Length cm Maximum Width cm RR LR Φ **Curb Weight** kg Within ± 5 degrees Average Track cm (1) Yes (2) No (8) NA (9) Unk. **DRIVE WHEELS** Front Overhang TYPE OF TRANSMISSION ØFWD □RWD □4WD Rear Overhang cm ☐ Manual ☐ Automatic Undeformed End Width 145.db cm **Approximate** END SHIFT ≥ 10 CM Engine Size: cyl./displ. _/6 Cargo Weight kg ☐ Yes ☐ No

MEASUREMENTS IN CENTIMETERS



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

			CDC	WORKSH	EET						
			CODES FOR	OBJECT CO	NTACTED						
(01-30)	- Vehicle Nu	mber		•	7) Fence						
Monaell	iaia				8) Wall						
Noncoll		ollover (excludes			9) Buildii						
(31)	Rollover—end	lover texcludes	ena-over-en		0) Ditch						
	Fire or explos				1) Groun						
	Jackknife	1011			2) Fire h	yurant					
		it damage (specif	v)·		4) Bridge	,					
(00)	o trioi iritidarii	it damage (specif	y 1.			fixed object (s	enecify):				
(36)	Noncollision in	njury		(0	0, 01,101	TIXOU ODJUGE (S	specify).				
		ision (specify):		(6	9) Unkno	wn fixed obje	ct				
(39)	Noncollision -	– details unknow	n			Nonfixed Obje					
				(7		nger car, light		or other			
	With Fixed O					e not in-transp					
	Tree (≤ 10 cm					Medium/heavy truck or bus not in-transpor					
	Tree (> 10 cr			-	2) Pedes						
	Shrubbery or Embankment	busn				Cyclist or cycle					
		(7)	4) Other	Other nonmotorist or conveyance							
(45) Breakaway pole or post (any diameter)						Vehicle occupant					
		_		6) Anima							
	kaway Pole or				7) Train						
		≤ 10 cm in diame				Trailer, disconnected in transport Object fell from vehicle in-transport					
(51)	diameter)	> 10 cm but ≤ 3	O cm in					ort			
(52)		> 30 cm in diam	ntorl	(8)	8) Other	nonfixed objec	ct (specify):				
		diameter unknow	(8:	9) Unkno	wn nonfixed o	biect					
(5.4)	Congress traff	iio harriar									
(54) Concrete traffic barrier (55) Impact attenuator				(9)	B) Other	Other event (specify):					
(56)	Other traffic b (specify):	parrier (includes g	(9	9) Unkno	wn event or o	bject					
		DEFORMA	TION CLASS	SIFICATION B							
Accident		(1) (2)			Specific	(5) Specific	(6)				
Event		Direction	Incremental	(3)	Longitudina		Type of	(7)			
Sequence	•	of Force	Value of	Deformation	or Lateral	Lateral	Damage	Deformation			
Number	Contacted	(degrees)	Shift 	Location	Location	Location	Distribution	Extent			
b 1	do 2	ー ュ め	$\phi \phi$	F	\mathcal{D}	و	w	<u>(b)</u>			
Ψ	-		44		<u> </u>	2	<u>w</u>	<u> </u>			
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<u> </u>	<u> </u>	$= 9 \phi$	Φ	<u> </u>	2	یے	رين	Ø2			
t	1	,	()								
											
				-							

		COLLISION	DEFORMA	TION CLAS	SIFICATIO	N	
HIGHEST [DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>\$\phi</u>]_	5. <u>Φ</u> <u>Z</u>	6	7. <u> </u>	8. <u> D</u>	9. <u>E</u>	10. <u>W</u>	11. <u>\$\phi_2</u>
Second Hig	ghest Delta "V"	•					
12.42	13. <u>\$\phi\ 2</u>	14. 09	15. <u>L</u>	16. <u>Z</u>	17. <u>E</u>	18. <u>W</u>	19. <u>\$\phi_2\$</u>
		CRUS	H PROFILE	IN CENTIM	ETERS		
	The crush pro in the app	ofile for the dar ropriate space	nage described below. (ALL M	in the CDC(s) a IEASUREMENTS	above should b S ARE IN CENT	e documented TIMETERS.)	
HIGHEST D	ELTA "V"						
20. L	21. 			C ₄	C ₅	C ₆	22. ±D
145	ф2 <u>4</u>	φ 2 μ.	Ø 25 g	122 \$	£9 ¢;	1 \$ \display	<i>\$14</i>
Second Hig	hest Delta "V"						
23. 	24. C,		C ₃		C ₅	C ₆	±D
						=	
(Coded impact i (250) : (998)	med End Width when highest se is an end plane is Code to the nea 250 centimeters No highest seve	everity impact.) irest centimeter s or more		(650) (999)	Wheelbase Code to the neacentimeter 650 centimeters Unknown inches X	s or more	2 6 9
27. Direct D (For high (250)	Damage Width hest severity im Code to the nea 250 centimeters Unknown	rest centimeter	117	((185)	Average Track Code to the nearest centime 185 centimeters Jnknowninches X	eter s or more	CAI

		FUEL SYSTEM
Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes	<u> </u>	35. Location of Fuel Tank-1 Filler Cap 36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on
Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown Is This A Multi-Stage Manufactured Vehicle And/Or A Cortified Altered Vehicle	<u>ф</u>	left side plane (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane
And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report)		on right side plane (8) Other (specify): (9) Unknown 37. Type of Fuel Tank-1 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic
(9) Unknown if vehicle is modified FIRE OCCURRENCE		(2) Non-metallic (9) Unknown 39. Location of Fuel Tank-1
Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	<u> </u>	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered
Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown	φ.	(5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

			, 		
43.	Leakage Location of Fuel System-1		47. Is T	his Vehicle Equipped With More Than	1
44.	Leakage Location of Fuel System-2	ф	•	Fuel Tanks? No (one or two tanks only)	
	(0) No fuel tank	•			
	(1) No fuel leakage		Yes	- More Than Two Tanks	
			(1)	Yes no damage to any tank or filler	
	Primary Area Of Leakage			cap and no fuel system leakage	
	(2) Tank		(2)	Yes no damage to any tank or filler	
	(3) Filler neck			cap but there is fuel system leakage	
	(4) Cap		l	(specify leakage location):	
	(5) Lines/pump/filter				
	(6) Vent/emission recovery		(3)	Yes damage to an additional tank or	
	(8) Other (specify):		ļ	filler cap and there is fuel system leakage	
	(9) Unknown		<u> </u>	(specify the following):	
				Type of tank	
		1 .		Tank location	
45.	Fuel Type-1	ъl		Filler cap location	_
				Tank Gamage	
46.	Fuel Type-2	ΦФ		Location of leakage	
			!	Type of fuel	-
	Single Fuel Type	i	(9)	Type of fuel	-
	(00) No fuel tank				
	(01) Gasoline				
	(02) Diesel				
	(03) CNG (Compressed Natural Gas)			COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also				
	known as Propane				
	(05) LNG (Liquid Natural Gas)				
	(06) Methanol (M100 or M85)				
	(07) Ethanol (E100 or E85)				
	(08) Other (Hydrogen or others) (specify):				
		_			
	Electric Powered or Electric/Solar				
	Powered Vehicles				
	(10) Lead Acid Battery				
	(11) Nickel-Iron Battery				
	(12) Nickel-Cadmium Battery				
	(13) Sodium Metal Chloride Battery				
	(14) Sodium Sulfur Battery				
	(18) Other (Specify):		*****		
	(98) Other Hybrid (specify):				
					
	(99) Unknown fuel type				
	*** STOP: IF THE CDS AF	PPLICABLE	E VEHIC	LE WAS NOT TOWED ***	

*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED ***

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

(6) Glazing out-of-place by occupant contact and holed by

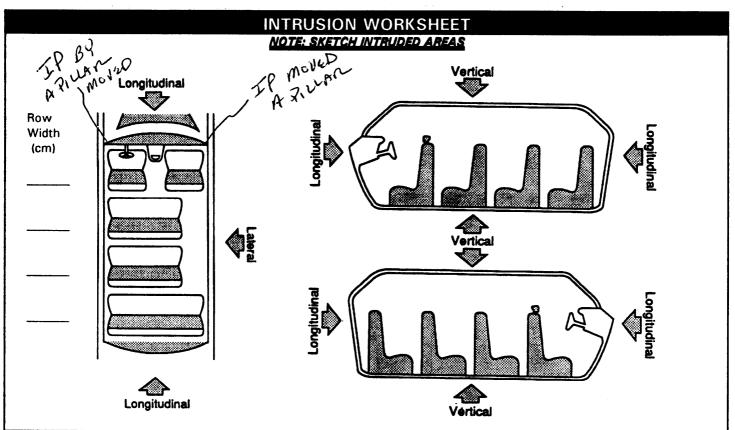
occupant contact

(7) Glazing removed prior to accident (8) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant

dministration	CRASHWORTHINESS DATA SYSTI
1. Primary sampling Unit Number	GLAZING
	Type of Window/Windshield Glazing
2. Case Number - Stratum DS 961 \$\psi\$	15. WS / 16. LF / 17. RF / 18. LR 4 19. RR 4
3. Vehicle Number	20. BL 4 21. Roof 4>22. Other 4
INTEGRITY	'
4. Passenger Compartment Integrity (00) No integrity loss Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof	 (0) No glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint) (6) AS-14 — Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify):
(05) Roof glass	(9) Unknown
(06) Side window (07) Rear window (backlight)	Window Precrash Glazing Status
(08) Roof and roof glass (09) Windshield and door (side)	23. WS / 24. LF Z 25. RF Z 26. LR Z 27. RR Z
(10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window	28. BL <u>/</u> 29. Roof_ <i>\psi</i> 30. Other_/
(13) Door and side window	(0) No glazing
(98) Other combination of above (specify):	(1) Fixed (2) Closed
(99) Unknown	(3) Partially opened (4) Fully opened (7) Glazing removed prior to accident (9) Unknown
Door, Tailgate or Hatch Opening	(9) Unknown HOLED SO THE AT Glazing Damage from Impact Forces
5. LF <u> 6. RF 7. LR 8. RR 9. TG/H </u>	31. WS <u>3</u> 32. LF <u>/</u> 33. RF <u>/</u> 34. LR <u>/</u> 35. RR <u>/</u>
(0) No door/gate/hatch	36. BL <u>/</u> 37. Roof_ <i>Ф</i> 38. Other_/_
(1) Door/gate/hatch remained closed and operational(2) Door/gate/hatch came open during collision	(O) No glazing
(3) Door/gate/hatch jammed shut (8) Other (specify):	(1) No glazing damage from impact forces
(b) Other (specify):	(2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces
(9) Unknown	(4) Glazing out-of-place (cracked or not) and not holed from impact forces
	(5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 \neq 2, Then code Ø	(7) Glazing removed prior to accident (9) Unknown if damaged
10. LF <u>(</u>) 11. RF <u>(</u>) 12. LR <u>(</u>) 13. RR <u>(</u>) 14. TG/H <u>(</u>)	Glazing Damage from Occupant Contact
(O) No door/gate/hatch or door not opened	39. WS / 40. LF / 41. RF / 42. LR / 43. RR /
Door, Tailgate or Hatch Came Open During Collision	44. BL <u>/</u> 45. Roof <u></u> ⊉ 46. Other <u>/</u>
(1) Door operational (no damage)(2) Latch/striker failure due to damage	(O) No glazing
(3) Hinge failure due to damage	(1) No occupant contact to glazing
(4) Door structure failure due to damage	(2) Glazing contacted by occupant but no glazing damage
(5) Door support (i.e., pillar, sill, roof side rail,	(3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact
etc.) failure due to damage (6) Latch/striker and hinge failure due to damage	(5) Glazing out-of-place (cracked or not) by occupant
(8) Other failure (specify):	contact and not holed by occupant contact

(9) Unknown

(8) Other failure (specify):



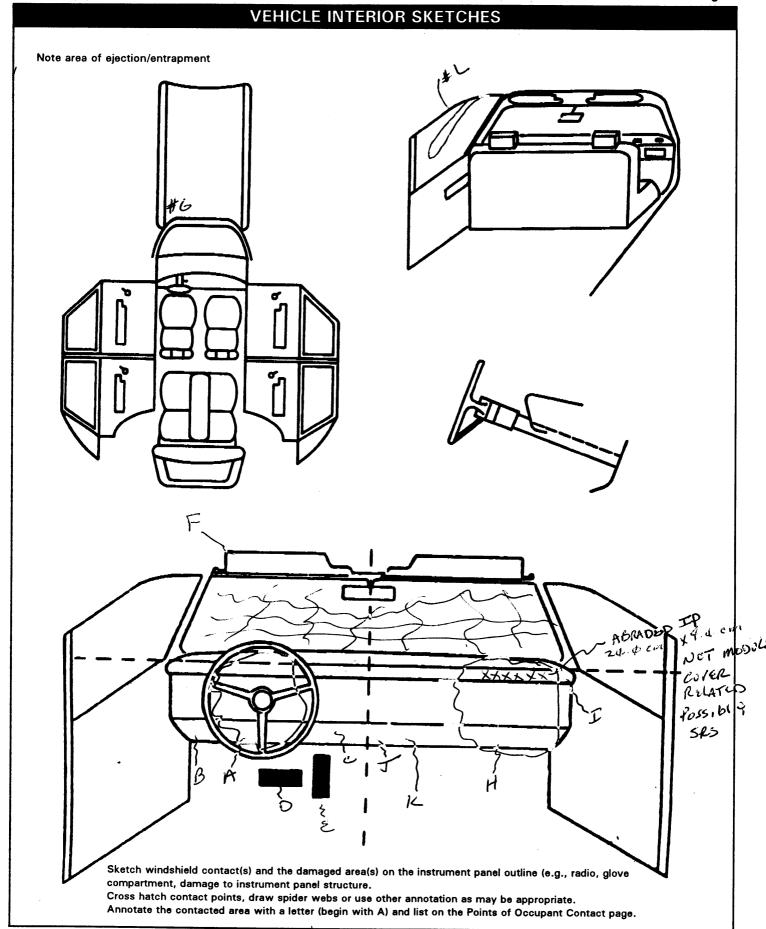
LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	l Meas	urements Are In Co INTRUDED VALUE	entimeters)	INTRUSION	DOMINANT CRUSH DIRECTION
11	φ5	69.5	_	60.6	=	9.5	2
11	18	22.0		25 D	=	3. D	1
13	φ4	,		,	=	1.5	3
13	p4				= .	2.5	2_
11	27		_		=	10	3
			_		=		
					=		
			_		=		
					=		
			_		=		
			_		=		
					=		
			_		=	:	,
			_		=		
			_		=		

OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT **Dominant** Interior Components Intruding Location of Magnitude Crush (01) Steering assembly Intrusion Component of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1 48. 2 7 49. 2 50. (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 1 52. 4 5 53. 2 54. 2 (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side) (12) Side panel - rear of the B-pillar (13) Roof (or convertible top) (14) Roof side rail (15) Windshield (16) Windshield header 4th 59. 60.____61. 62. (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 5th 63. ___ 64.___ 65._ 66. (21) Second seat back (22) Third seat back (23) Fourth seat back (24) Fifth seat back 6th 67.___ 68.__ 69. 70._ (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): L- WINDOW FRAME PLASTIC COVER 7th 71.___ 72.__ 73. 74. **Exterior Components** (30) Hood 8th 75.___ 76.__ 77. (31) Outside surface of this vehicle (specify): 78.__ (32) Other exterior object in the environment (specify): 9th 79.____ 80. 81. 82. (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.____ 84.____ 85.___ 86. (99) Unknown **LOCATION OF INTRUSION** MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown **DOMINANT CRUSH DIRECTION** Third Seat (1) Vertical (31) Left (32) Middle (2) Longitudinal (3) Lateral (33) Right (7) Catastrophic

(9) Unknown

STEERING	G RIM/SPOKE DEFO	RMATIC) N	
	ll Measurements Are in Centimet			
COMPARISON VALUE -	DAMAGE VALUE	=	DEFORMATION	
<i>/.</i>		=		
		=		
		=		
_		=		

STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type	92. Odometer Reading / / / ,000
(1) Fixed column	- \
(2) Tilt column	kilometers
(3) Telescoping column	Code to the nearest 1,000 kilometers
(4) Tilt and telescoping column	(000) No odometer (001) Less than 1,500 kilometers
(8) Other column type (specify):	(500) 499,500 kilometers or more
(9) Unknown	(999) Unknown
(5) GIRIOWII	(999) Unknown
88. Tilt Steering Column Adjustment	Source: VEHICLE INSPECTION
(0) No tilt steering column	93. Instrument Panel Damage from
(1) Full up	Occupant Contact?
(2) Between full up and center	(O) No
(3) Center (4) Between center and full down	(1) Yes
(5) Full down	(9) Unknown
(9) Unknown	94. Type of Knee Bolster Covering
	(0) No knee bolster
laa - , , , , , , , , , , , , , , , , , ,	(1) Padded
89. Telescoping Steering Column Adjustment	= 1
(0) No telescoping steering column (1) Full back	(8) Other (specify):
(1) Full back (2) Between full back and midpoint	(9) Unknown
(3) Midpoint	95. Knee Bolsters Deformed from
(4) Between midpoint and full forward	Occupant Contact?
(5) Full forward	(0) No knee bolster
(9) Unknown	(1) No deformation
	(2) Yes - deformation
90. Steering Rim/Spoke Deformation	(9) Unknown
Code actual measured	96. Did Glove Compartment Door Open
deformation to the nearest centimeter	During Collision(s)?
(00) No steering rim deformation	(0) No glove compartment door
(01-14) Actual measured value in centimeters	(1) No - door did not open
(15) 15 centimeters or more	(2) Yes - door opened
(98) Observed deformation cannot be measured (99) Unknown	(9) Unknown
(SS) STIMISWIT	97. Adaptive (Assistive) Driving Equipment
11	(0) No adaptive driving equipment
91. Location of Steering Rim/Spoke	(1) Adaptive driving equipment installed
Deformation (00) No steering rim deformation	(Check all that apply.) [] Hand controls for braking/acceleration
(00) No steering him deformation	[] Steering control devices (attached to OEM
Quarter Sections	steering wheel
(01) Section A	[] Steering knob attached to steering wheel
(02) Section B	[] Low effort power steering (unit or device)
(03) Section C	[] Replacement steering wheel (i.e., reduced
(04) Section D Upper Lower	diameter) [] Joy-stick steering controls
Half Sections	[] Wheelchair tie-downs
(05) Upper half of rim/spoke	[] Modification to seat belts (specify):
(06) Lower half of rim/spoke	
(07) Left half of rim/spoke (g f g f g f g f g f g f g f g f g f g	[] Additional or relocated switches (specify):
(90) Right half of filli/spoke	[] Raised roof
(09) Complete steering wheel collapse	[] Wall-mounted head rest (used behind
(10) Undetermined location	wheelchair)
(99) Unknown	[] Other adaptive device (specify):
	(9) Unknown



Certain Probable Possible Unknown

(1) (2) (3) (9)

		POIN	TS OF OC	CUPANT CONTACT	
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
Α	170	i i		Deployed	2
В	DID.		L-KNEZ	DENTED BOLSTER	2
С	\$11		R-KNEZ	DENTED BOLSTER	2.
D	254	1		MOVED - JAMMED	3
Е	254			MEYED - JAMMED TO PLEHT	3
F	443			SCUCE - INDENTATION	3
G	245			Scoff - INDENTATION	3
Н	180	2	FACE, CHEST		1
l	110	2		Missing VENT	9
J	<i>Φ</i> 19			COIN TRAY KNOCKED DOWN	9
K	dou		_	HEATER MODULE Missing	9
L	\$59	ı	HEAD	INJURY PLASTIC COVER INTRUSION	2
М				, , , , , , , , , , , , , , , , , , , ,	
N					
FRONT	•	CO	DDES FOR INTE	ERIOR COMPONENTS REAR	

	•				 					
	N									
FRON	т				DDES FOR INTE	DIOD C	CAADONENITO			I
	Windshield			C	DES I ON INTE	MON C	OWIFUNEINIS	REAR		
		•		0105					Backlight (rea	
	Mirror		LEFT			INTER		(302)	Backlight stor	age rack,
	Sunvisor		(051)		e interior surface,		Seat, back support		door, etc.	
	Steering w				ng hardware or	(152)	Belt restraint	(303)	Other rear obj	ect (specify):
		vheel hub/spoke		armrest			webbing/buckle			
(006)		wheel (combination	(052)		e hardware or	(153)	Belt restraint B-pillar or door			
10071		004 and 005)		armrest			frame attachment point	ADAP	PTIVE (ASSISTI	VE) DRIVING
(007)	Steering				A1/A2)-pillar	(154)	Other restraint system	EQUIF	PMENT	
		Insmission		Left B-p			component (specify):	(401)	Hand controls	for
	selector le		(055)	Other le	ft pillar (specify):				braking/accele	eration
	attachmen					(155)	Head restraint system	(402)	Steering contr	rol devices
(800)		lephone or CB	(056)	Left sid	e window glass	(160)	Other occupants (specify):		(attached to C	DEM steering
	radio		(057)	Left sid	e window frame				wheel)	•
(009)		uipment(e.g.,			e window sill	(161)	Interior loose objects	(403)	Steering knob	attached to
		air conditioner)	(059)	Left side	e window glass	(162)	Child safety seat (specify):		steering whee	
(010)	Left instru	ment panel and		includin	g one or more of the			(405)	Replacement	
	below			followin	g: frame, window	(163)	Other interior object	, ,	(i.e., reduced	
(011)	Center inst	trument panel and			1/A2)-pillar, B-	• • • • • •	(specify):	(406)	Joy stick stee	
	below			pillar, or	roof side rail.				Wheelchair tie	
(012)	Right instr	ument panel and	(060)		ft side object	AIR B	AG		Modification to	
	below			(specify			Air bag-driver side	(400,	mounication t	o acat boits,
(013)	Glove com	partment door					Air bag compartment	(specify)		
(014)	Knee bolst	er	RIGHT	SIDE		(,	cover-driver side		Additional or a	releasted
(015)	Windshield	l including one or	(101)	Right si	de interior surface,	(180)	Air bag-passenger side	(403)	switches, (spe	
		e following: front			g hardware or		Air bag compartment		avaitorios, (spe	sciry,.
		(A1/A2)-pillar,		armrest		(,	cover-passenger side			
		panel, mirror, or	(102)		de hardware or	(190)	Other air bag (specify)	(410)	Raised roof	
		sembly (driver	(,	armrest	o naturale of	(130)	Other air bag (specity)			
	side only)	, (4	(103)		(A1/A2)-pillar			(411)	Wall mounted	
(016)		l including one or		Right B-		(10E)	Other air bag compartment	1440)	(used behind v	
, ,		e following: front		-	philar (specify):	(190)	cover (specify)	(412)	Other adaptive	e device
		(A1/A2)-pillar,	(100)	Other m	girt pillar (apeciry).		cover (specify)		(specify):	
		panel, or mirror	(106)	Right ein	le window glass		•			
		side only)			de window grass					
(017)		reinforced by			de window sill	ROOF				
,,,,		ject, (specify):			ie window glass					
		, oc., (opeo., y,.	(103)		one or more of the		Front header Rear header			
(019)	Other front	t object (specify):			g: frame, window					
(0.0,	Cola				v. Trame, window 1/A2)-pillar, B-		Roof left side rail			
	-UIN	1511			roof side rail.		Roof right side rail			
			(110)			(205)	Roof or convertible top			
			(110)	Culer ng	sht side object	5100	_			
				rehectry	: VENT	FLOO				
						(251)	Floor (including toe pan)			
						(252)	Floor or console mounted			
							transmission lever, including		DENCE LEVEL	OF CONTACT
							console	POINT		
							Parking brake handle	(1)	Certain	
						(254)	Foot controls including	(2)	Probable	
							parking brake	(3)	Possible	
								(9)	Unknown	

MANUAL RESTRAINTS

Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

NOTES: If a child safety seat is present, encode the data on the back of this page 11. If the vehicle has automatic restraints available, encode the appropriate data on page 6. Left Center Right 3 A-Availability LOADING CURL count, wisborn CURLING LUADING F B-Evidence of usage SCRATCHE) LATCH boung TRAIN EST DEING C-Used in this crash? R **D-Proper Use** S **E-Failure Modes** F-Anchorage Adjustment A-Availability 3 PLATES B-Evidence of usage SCRATCHED LATCH SECOND C-Used in this crash? \$ B DO JY V **D-Proper Use** V **E-Failure Modes** Φ Ø F-Anchorage Adjustment A-Availability **B-Evidence of usage** 0 T C-Used in this crash? H **D-Proper Use** E E-Failure Modes R F-Anchorage Adjustment A-Manual (Active) Belt System Availability D-Proper Use of Manual (Active) Belts F-Shoulder Belt Upper Anchorage Adjustment (0) None available (0) None used or not available No shoulder belt (1) Belt removed/destroyed (1)Belt used properly (1) No upper anchorage adjustment for (2) Shoulder belt (2)Belt used properly with child safety shoulder belt (3) Lap belt seat (4) Lap and shoulder belt Adjustable shoulder Belt Upper (5) Belt available - type unknown Belt Used Improperly Anchorage Shoulder belt worn under arm (3) (2)In full up position Integral Belt Partially Destroyed (4)Shoulder belt worn behind back or (3) In mid position (6) Shoulder belt (lap belt seat (4)In full down position destroyed/removed) (5) Belt worn around more than one (5) Position unknown (7) Lap belt (shoulder belt person (9) Unknown if position has adjustable destroyed/removed) (6) Lap belt worn on abdomen upper anchorage adjustment (8) Other belt (specify): (7)Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (9) Unknown (8) Other improper use of manual belt system (specify): B/C-Manual (Active) Belt System Use (00) None used, not available, or belt (9) Unknown removed/destroyed (01) Inoperable (specify): E-Manual (Active) Belt Failure Modes During (02)Shoulder belt Accident (03) Lap belt (0) No manual belt used or not available (04)Lap and shoulder belt (1) No manual belt failure(s) Belt used - type unknown (05) (2) Torn webbing (stretched webbing (08) Other belt used (specify): not included) (3) Broken buckle or latchplate (12)Shoulder belt used with child safety Upper anchorage separated (4) (5) Other anchorage separated (13)Lap belt used with child safety seat (specify): Lap and shoulder belt used with (14)(6) **Broken retractor** child safety seat (7)Combination of above (specify):

Other manual belt failure (specify):

(8)

(9)

Unknown

Belt used with child safety seat -

Other belt used with child safety

type unknown

seat (specify):

Unknown if belt used

(15)

(18)

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

		Frontal Air BagsLeft Front	Frontal Air Bags-Right Front	OtherAir Bag
F	Availability/Function	/	1	P
R	Deployment	/	1	ψ
Ť	Failure		1	d)

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
	A-Availability/Function	φ	Φ
F	B-Use	φ	ψ
Ŕ	C-Type	Φ	ø
T	D-Proper Use	ψ	4
	E-Failure Modes	9	Ø

A-Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

B-Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

C-Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

D-Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

E-Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES:

Encode the applicable data *for the driver and first seat passenger* in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
A-Type of air bag?	1	ì
B-Flaps open at tear points?	2	·~
C-Flaps damaged?	ı	(
D-Air bag damaged?	4 1	<i>Φ</i> I
E-Source of air bag damage	фl	ΦI
-Air bag tethered?	2.2	1
G-Air bag have vent ports?	22	2,2
H-Other occupant contact air bag?		,
I-Occupant wearing eyewear?	2	1

A-Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

C-Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

D-Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

E-Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

F-Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

G-Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

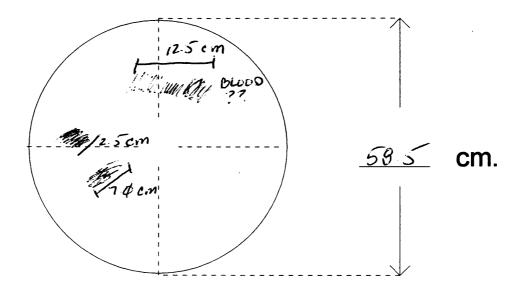
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

I-Was This Occupant Wearing Eye-wear?

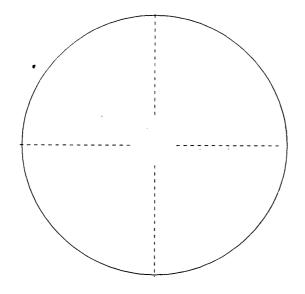
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



DRIVER AIR BAG SKETCHES (Cont'd)

3. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

> width (W_U) _____ width (W_L) ____ height (H)

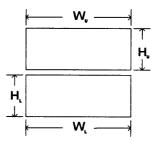
4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

Upper Flap

b. Lower Flap

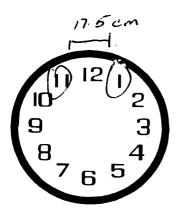
width (W_U) $2\psi.5$ width (W_L) $2\psi.5$

height (H_u) 16.5 height (H_L) 7.9



- 5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE
- 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

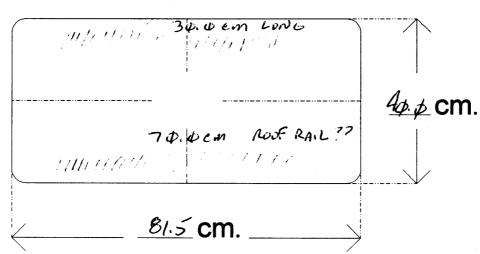
7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT **PORTS** 2,5 cm



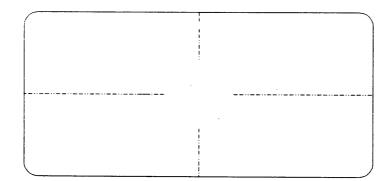
PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)





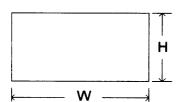
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BAG SKETCHES (Cont'd)

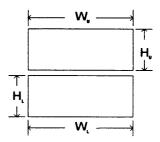
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

width (W) ______



4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

a. Upper Flap b. Lower Flap width (W_U) 3i, 3 width (W_L) 3i. 3 height (H_U) 5.5 height (H_L) 5.5



5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE

6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS 6500 DIAMETER

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES	
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)	
2. Sketch damage and contact evidence on "OTHER" AIR BAG (Back)	
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)	
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)	
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)	
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)	

"OTHER" AIR BAG SKETCHES (Cont'd)	
3. SKETCH AIR BAG MODULE FLAP AND SIZE OR OPENING FOR AIRBAG	
4. SKETCH AIR BAG VENT PORTS	

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found on the next page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	A-Head Restraint Type/Damage	3	ф	3
	B-Seat Type	Ø6	06	фЬ
_	C-Seat Orientation	1)	j
	D-Seat Track Position	5	5	5
R	E-Seat Back Incline Pre/Post Impact	100 14	Ø1	23 33 ⁰
T	F-Seat Performance	1)	1
	A-Head Restraint Type/Damage	1	Φ	1
	B-Seat Type	Φ3	43	ψ3
	C-Seat Orientation	1	1	1
S	D-Seat Track Position]		1
CO	E-Seat Back Incline Pre/Post Impact	Φ1	<i>(</i> b)	ıb l
N	F-Seat Performance	1	1	1
	A-Head Restraint Type/Damage			/
	B-Seat Type			
т	C-Seat Orientation			
H	D-Seat Track Position			
R	E-Seat Back Incline Pre/Post Impact			/
D	F-Seat Performance	/		
	A-Head Restraint Type/Damage			
	B-Seat Type			
0	C-Seat Orientation			
T H	D-Seat Track Position			
E R	E-Seat Back Incline Pre/Post Impact		/	
11	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

A-Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- Integral no damage
 Integral damaged during accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage(6) Add-on damaged during accident
- Other Specify):
- (9) Unknown

B-Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01)Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- Box mounted seat (i.e., van type)
- (10) Other seat type (specify):
- (99) Unknown

C-Seat Orientation (this Occupant Position)

- (0)Occupant not seated or no seat
- Forward facing seat (1)
- (2)Rear facing seat
- (3) Side facing seat (inward)
- (4)Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

D-Seat Track Adjusted Position Prior To Impact

- (0)Occupant not seated or no
- (1) Non-adjustable seat track

Adjustable Seat Track

- Seat at forward most track (2) position
- (3) Seat between forward most and middle track positions
- Seat at middle track position
- (5)Seat between middle and rear most track positions
- (6)Seat at rear most track position
- (9) Unknown

E-Seat Back Incline Prior and Post **Impact**

- (00)Occupant not seated or no seat
- (01)Not adjustable

Upright prior to impact

- (11) Moved to completely rearward position
- (12)Moved to rearward midrange position
- (13)Moved to slightly rearward position
- (14)Retained pre-impact position
- (15)Moved to slightly forward position
- (16)Moved to forward midrange position
- (17)Moved to completely forward position

Slightly reclined prior to impact

- Moved to completely rearward position
- (22)Moved to rearward midrange position
- (23)Retained pre-impact postion
- (24)Moved to upright position
- (25)Moved to slightly forward position
- (26)Moved to forward midrange position
- (27)Moved to completely forward position

Completely reclined prior to impact

- Retained pre-impact position
- (32)Moved to rearward midrange position
- (33)Moved to slightly rearward position
- (34)Moved to upright position
- (35) Moved to slightly forward position
- (36)Moved to forward midrange position
- (37)Moved to completely forward position
- (99) Unknown

34 33 35 36 32 37 31

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F-Seat Performance (this Occupant Position)

- (0)Occupant not seated or no seat
- (1)No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- (4)Seat tracks/anchors failed
- (5)Deformed by impact of occupant
- (6)Deformed by passenger compartment intrusion (specify):
- (7)Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Coding diagrams for Seat Back Incline Position Prior and Post Impact

Occupant Number	
. Type of Child Safety Seat	
. Child Safety Seat Orientation	16
. Child Safety Seat Harness Usage	NOM
. Child Safety Seat Shield Usage	
. Child Safety Seat Tether Usage	
. Child Safety Seat Make/Model	
	r Each Child Safety Seat
. Type of Child Safety Seat	O Child Cafee County
(0) No child safety seat	3. Child Safety Seat Harness Usage
(1) Infant seat (2) Toddler seat	4. Child Safety Seat Shield Usage
(3) Convertible seat	E Child Cofee, Cont Tokken Hanna
(4) Booster seat	Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5
(7) Other type child safety seat (specify):	(00) No child safety seat
(8) Unknown child safety seat type	(00) 140 Clina Safety Seat
(9) Unknown if child safety seat used	Not Designed with Harness/Shield/Tether
. Child Safety Seat Orientation	(O1) After market harness/shield/tether added, not used
(00) No child safety seat	(02) After market harness/shield/tether used
·	(03) Child safety seat used, but no after market
Designed for Rear Facing for This Age/Weight	harness/shield/tether added
(01) Rear facing	(09) Unknown if harness/shield/tether added or used
(02) Forward facing	44444
(08) Other orientation (specify):	Designed With Harness/Shield/Tether
(09) Unknown orientation	(11) Harness/shield/tether not used (12) Harness/shield/tether used
	(19) Unknown if harness/shield/tether used
Designed for Forward Facing for This	The state of the s
Age/Weight (11) Rear facing	Unknown If Designed With Harness/Shield/Tethe
(12) Forward facing	(21) Harness/shield/tether not used (22) Harness/shield/tether used
(18) Other orientation (specify):	(29) Unknown if harness/shield/tether used
(19) Unknown orientation	(99) Unknown if child safety seat used
Unknown Design or Orientation For This	6. Child Safety Seat Make/Model
Age/Weight, or Unknown Age/Weight	(Specify make/model and occupant number)
(21) Rear facing (22) Forward facing	
(28) Other orientation (specify):	
(29) Unknown orientation	

CHILD SAFETY SEAT FIELD ASSESSMENT

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form **EJECTION/ENTRAPMENT DATA** Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occupant Assessment Form. **EJECTION** No [/] Yes[] Describe indications of ejection and body parts involved in partial ejection(s): **Occupant Number Ejection** (Note on Vehicle Interior Sketch) **Ejection Area Ejection Medium Medium Status Ejection** (7) Roof (5) Integral structure (1) Complete ejection (2) Partial ejection

Eiection	Area

(1) Windshield

(9) Unknown

(3) Ejection, Unknown degree

- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

- (8) Other area (e.g., back of pickup, etc.) (specify):
- (9) Unknown

Ejection Medium

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- (3) Fixed glazing
- (4) Nonfixed glazing (specify):

- (8) Other medium (specify):
- (9) Unknown

Medium Status (Immediately Prior to Impact)

- (1) Open
- (2) Closed
- (3) Integral structure
- (9) Unknown

ENTRAPMENT No.] Yes []	
Describe entrapment mechanism:	·
Component(s):	
Note on vehicle interior sketch)	

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DS9614	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) -6
4. Occupant Number ϕ	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 7 \$\psi\$ inches X 2.54 = centimeters	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown 22 p pounds X .4536 = kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown
HS Form 433A (1/96) This report is sushavired by D.L. 00 Foo	BEST AVAILABLE

		ystem. Occupant Assessment Form	Page
EJECTIC	ON/EN	NTRAPMENT	
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	Ф	 15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 	<u>\$\psi\$</u>
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.)	ф 	 16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors fire, etc. (specify):	<u>\$</u> ;,
(specify):(9) Unknown		 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious on not oriented to time or place 	r or
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	Ф	 (2) Removed from vehicle due to perceived ser injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown 	

	BELT SYSTE	EM FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage
	 (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): 	Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
-	(9) Unknown	23. Automatic (Passive) Belt System Availability/
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
	 (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): 	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with shill sefety and	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	(2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt were under arm
	improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	 (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn
	(9) Unknown	on abdomen (7) Automatic lap and shoulder belt or
	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)
	(7) Combination of above (specify):	(2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated
	(8) Other manual belt failure (specify):	(b) Other anchorage separated (specify):
1	(9) Unknown	(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):
		(9) Unknown .

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
 35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown 	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(7) Not deployed (8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

ì	HEAD RESTRAINT AND SEAT EVALUATION
	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket
2	(02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):
<u>~</u>	(99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
<u> </u>	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions
t to	 (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
	2

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

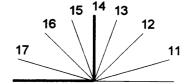
Slightly reclined prior to impact

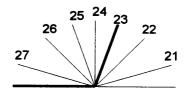
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

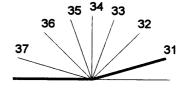
Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown









	СНІІ	LD SAI	FETY	Y SEAT	
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat			3. Child Safety Seat Harness Usage ϕ 3. Child Safety Seat Shield Usage ϕ	<u>ф</u>
56.	(997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify):	<u>Φ</u>	60.	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used	₽
57.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation) Ф		Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tethe (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used	er
	Designed For Forward Facing for This Age/Wei (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	ight			

	INJURY CONSEQUE	INCES			
61.	Injury Severity (Police Rating)	3		Of Medical Facility (for Initial Tre	eatment) 2
	(0) O - No injury			lot treated at a medical facility	
	(1) C - Possible injury			rauma center	
	(2) B - Nonincapacitating injury		1	lospital	
	(3) A - Incapacitating injury		(3) N	Medical clinic	
	(4) K - Killed		(4) P	hysician's office	
	(5) U - Injury, severity unknown		(5) T	reatment later at medical facility	
	(6) Died prior to accident			other (specify):	
				•	
	(9) Unknown		(9) (Inknown	
	-	3	, , ,		
62.	Treatment - Mortality		64. Hosp	ital Stay	3/h
	(0) No treatment			Not Hospitalized	29
	(1) Fatal			Code the number of days (up thr	ough COV
	(2) Fatal - ruled disease (specify)	:			ough ou
				the occupant stayed in hospital.	
			ľ	61 days or more	
	Nonfatal		(99)	Unknown	
	(3) Hospitalization				6.7
	(4) Transported and released			ing Days Lost	91
	(5) Treatment at scene - nontrans	enorted		Code the number of days	
	(6) Treatment later	sported	(up ti	hrough 60) that the occupant	
	(7) Treatment - other (specify):		lost	from work due to the accident	
	(7) Treatment - Other (Specify).		(00)	No working days lost	
	(9) Transported to a medical facility	lia		61 days or more	
	(8) Transported to a medical facil	iity-unknown if		Fatally injured	
	treated			Not working prior to accident	
	(9) Unknown			Unknown	
			(00,		
	EM	ERGENCY RESPO	NSE INF	ORMATION	
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	EMS Notification	2	EMS	Туре	ROAD VEHICLE
	EMS Notification (1) Not notified		EMS (01)	Type Fire department	ROAD VEHICLE G G
	EMS Notification (1) Not notified (2) Notified	2	EMS (01) (02)	Type Fire department Rescue squad	A
	EMS Notification (1) Not notified	ROAD VEHICLE	EMS (01)	Type Fire department	99
	EMS Notification (1) Not notified (2) Notified	ROAD VEHICLE	EMS (01) (02) (03)	Type Fire department Rescue squad Police department	99
	EMS Notification (1) Not notified (2) Notified	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04)	Type Fire department Rescue squad Police department Trauma unit	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown	ROAD VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07)	Type Fire department Rescue squad Police department Trauma unit Disaster unit	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime	ROAD VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime	ROAD VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy:	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown	ROAD VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown	ROAD VEHICLE AIR VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy:	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (98) (99)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport)	AIR VEHICLE
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did	ROAD VEHICLE AIR VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99) EMS (01)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered	99
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99) EMS (01) (02)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid	AIR VEHICLE
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE ROAD VEHICLE ROAD VEHICLE ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99) EMS (01) (02) (03)	Type Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation	AIR VEHICLE G G ROAD VEHICLE
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99) EMS (01) (02)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR	AIR VEHICLE G G ROAD VEHICLE
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99) EMS (01) (02) (03) (04)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care	AIR VEHICLE ROAD VEHICLE AIR VEHICLE
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (99) (01) (02) (03) (04) (05)	Fype Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG)	AIR VEHICLE ROAD VEHICLE AIR VEHICLE
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (09) (04) (05) (06) (07)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care	AIR VEHICLE ROAD VEHICLE AIR VEHICLE OOD pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (07) (08) (07) (08)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (09) (07) (08) (09) (08) (09)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify: Other, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (07) (08) (07) (08)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used	ROAD VEHICLE AIR VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (09) (07) (08) (09) (08) (09)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify: Other, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE G G G G G G G G G G G G G	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (09) (07) (08) (09) (08) (09)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify: Other, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE G G G G G G G G G G G G G	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (09) (07) (08) (09) (08) (09)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify: Other, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE G G G G G G G G G G G G G	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (09) (07) (08) (09) (08) (09)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify: Other, specify:	AIR VEHICLE ROAD VEHICLE P 9 AIR VEHICLE ood pressure,
	EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown EMS Arrival Time At Treatment Facility	ROAD VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE AIR VEHICLE G G G ROAD VEHICLE	EMS (01) (02) (03) (04) (05) (06) (07) (08) (05) (06) (07) (08) (99) (07) (08) (99)	Fire department Rescue squad Police department Trauma unit Disaster unit Ambulance service unit Hospital Mortuaries/funeral homes Other, specifiy: Unknown Care (on scene or during transport) No care administered First aid Resuscitation CPR Emergency cardiac care Life support system monitoring (bl pulse rate, respiration, EKG) Emergency burn care Combination of above, specify: Other, specify: Unknown	AIR VEHICLE ROAD VEHICLE AIR VEHICLE OOD pressure,

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>Ф</u> ф =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	\$ \$ \$ \$ \$ \$ \$	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify): (99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	\$ 7	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

Administration

OCCUPANT INJURY FORM

BEST AVAILABLE

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

			THE PROPERTY OF THE PROPERTY O
1. Primary Sampling Unit Numb	per	3. Vehicle Number	<u> </u>
2. Case Number - Stratum	DS9610	4. Occupant Number	<u>+</u>

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source		Type of	A.I.S 9	90				Injury	Occupant		
	of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
1at	5.7	6 <u> </u>	7 <u>5</u>	<u>ط2</u> ه	9.(०.१०)	10.2	11. 2-12	254	13.2	14.2	15. \$ 2	<u> 820</u> 8
2nd	16. 2	17.4	18.≦	19. <u>42</u>	2024	21. 7	2/2	152	_ 24. <u> </u>	25	26. <u>4.4</u>	<u>Bq7.</u> 43
3rd	27.7	28. <u>B</u>	29.5	30. 22	эл <u>ФФ</u>	32 <u>Z</u>	3334.	254	. 35 <u>.2</u>	36. <u>L</u> .	37. <u>Φ</u> ጌ	<u>825,</u> 20
4th	зв	39 <u>4</u>	40 9	41. ψ .2-	42. <u>\$2</u>	43 <u>L</u>	44. <u>4</u> 45.	<u>152</u>	46. <u> </u>	47	ия. <u>Ф</u> Ф	<u>911.</u> P
5th	49	50. <u>5</u>	51 9	52. <u>ф.2-</u>	53. <u>47</u> 上	54. <u>/</u>	55. <u>B</u> .56.	152	57	58]_ 5	क्र के क	911.p
					<u>фФ</u>			<u>ψ 6 Φ</u>	682	69. <u> </u>	ο. ψ L	<u>673</u> .¢
7th	n <u>9</u>	72	73 9 ;	14 th (2)	75. p.P	76. 1	77. <u>Z</u> 78.	17 <u>4</u>	79. <u>L</u>	80. <u>L</u> 8	ι <u>ψΦ</u>	<u>884</u> ,43
8th	82	83	84 8	15 <u> </u>	86	87	8889		90	91 9;	2	
9th	93	94	95 9	6 ı	97	98	99100.		101	102 10	3	
10th	104	105	106 10	771	08	109	110111.		112	113 11	4	

OCCUPANT INJURY CLASSIFICATION **Body Region Specific Anatomic** Level of Injury **Aspect** Structure Head Specific injuries are (2) (3) (4) (5) (6) (7) (8) Face Right assigned consecutive Neck Vessels, Nerves, Organs. Left two-digit numbers beginning Thorax Bilateral Bones, Joints are assigned with 02. Abdomen (4) Central consecutive two digit (5) Spine Anterior numbers beginning with 02. To the extent possible, within **Upper Extremity** (6) Posterior the organizational Lower Extremity Superior The exceptions to this rule framework of the AIS, 00 is (9) Unspecified (8) Inferior apply to: assigned to an injury NFS as Unknown to severity or where only one Whole region Whole Area injury is given in the Type of Anatomic Skin - Abrasion (02)dictionary for that anatomic Structure Skin - Contusion (04)structure. 99 is assigned to (06)Skin - Laceration any injury NFS as to lesion Whole Area (80)Skin - Avulsion or severity. (2) (3) Vessels (10) Amputation Nerves (20)Burn **Abbreviated Injury Scale** Organs (includes (30) Crush Muscles/ligaments) (40) Degloving (5) Minor Injury Skeletal (includes (50) Injury - NFS (2) (3) Moderate Injury joints) (90)Trauma, other than Serious Injury (6) (9) Head - LOC (4) (5) (6) mechanical Severe Injury Skin Critical Injury Head - LOC Maximum (02) Length of LOC (untreatable) (7) Injured, unknown (04)Level severity (06) of (08) Consciousness

(10) Concussion

Cervical

Thoracic

Lumbar

Spine (02)

(04)

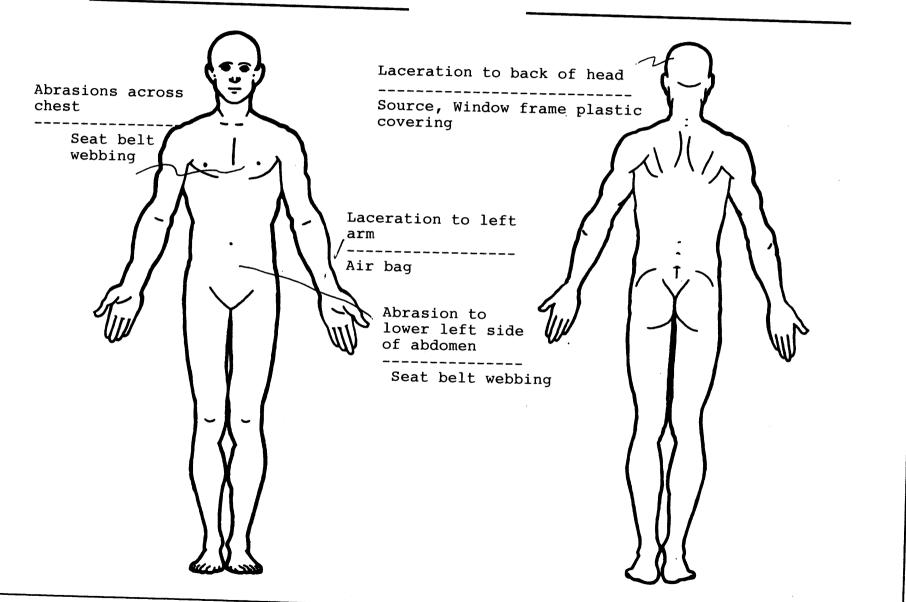
(06)

SOURCE OF INJURY DATA

OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify):	SOURCE OF INJURY DATA	INJURY SOURCE CONFIDENCE LEVEL	DIRECT/INDIRECT INJURY
(9) Folice	(1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee	(1) Certain (2) Probable (3) Possible	(2) Indirect contact injury (3) Noncontact injury

INJURY SOURCES FRONT (102) Right side hardware or (183) Air bag-passenger side and (001) Windshield Wall mounted head rest (used object held (002) Mirror behind wheel chair) (103)Right A (A1/A2)-pillar (184)Air bag-passenger side and (003)Sunvisor (412)Other adaptive device (104)Right B-pillar object in mouth (004)Steering wheel rim (specify):_ (105)Other right pillar (specify): (185)Air bag compartment Steering wheel hub/spoke (005)cover-passenger side Steering wheel (combination (006)(106)Right side window glass (186) Air bag compartment of codes 004 and 005) EXTERIOR of OCCUPANT'S Right side window frame (107)(007)cover-passenger side and Steering column, transmission **VEHICLE** (108)Right side window sill evewear (451) Hood selector lever, other (109)Right side window glass (187) Air bag compartment attachment (452)Outside hardware (e.g., including one or more of the cover-passenger side and Cellular telephone or CB radio outside mirror, antenna) (800)following: frame, window sill, jewelry (009)Add on equipment (e.g., tape (453)Other exterior surface or tires A (A1/A2)-pillar, B-pillar, or (188) Air bag compartment deck, air conditioner) (specify): _ roof side rail. cover-passenger side and (010) Left instrument panel and (110) Other right side object object held (454) Unknown exterior objects below (specify): (189) Air bag compartment (011) Center instrument panel and cover-passenger side and EXTERIOR OF OTHER MOTOR below object in mouth (012)VEHICLE Right instrument panel and INTERIOR (190)Other air bag (specify) (501) Front bumper below (151) Seat, back support (013)Glove compartment door (502)Hood edge Belt restraint webbing/buckle (152)(195) Other air bag compartment (503)(014) Knee bolster Other front of vehicle (153)Belt restraint B-pillar or door cover (specify) (015) Windshield including one or (specify): frame attachment point more of the following: front (154) Other restraint system (504) Hood header, A (A1/A2)-pillar, component (specify): ROOF (505)instrument panel, mirror, or Hood ornament (201) Front header (506)Windshield, roof rail, A-pillar steering assembly (driver side (155)Head restraint system (202)Rear header (507)only) Side surface (160) Other occupants (specify): (203)Roof left side rail (016) Windshield including one or (508)Side mirrors Roof right side rail (204)more of the following: front (509)Other side protrusions (161)Interior loose objects Roof or convertible top (205)header, A (A1/A2)-pillar, (specify): (162)Child safety seat (specify): instrument panel, or mirror FLOOR (passenger side only) (510) Rear surface Other interior object (specify): (251) Floor (including toe pan) (511) (017) Windshield reinforced by Undercarriage Floor or console mounted (512) Tires and wheels exterior object (specify) transmission lever, including (513) Other exterior of other motor AIR BAG (019) Other front object (specify): vehicle (specify): (170) Air bag-driver side (253)Parking brake handle (171) Air bag-driver side and (254) Foot controls including (514) Unknown exterior of other evewear parking brake LEFT SIDE motor vehicle (172)Air bag-driver side and jewelry (051) Left side interior surface, Air bag-driver side and object (173)REAR OTHER VEHICLE OR OBJECT IN excluding hardware or held (301) Backlight (rear window) armrests THE ENVIRONMENT (174) Air bag-driver side and object (302)Backlight storage rack, (052)Left side hardware or armrest (551) Ground in mouth door, etc. (053) Left A (A1/A2)-pillar (598)Other vehicle or object (175) Air bag compartment (303) Other rear object (specify): (054) Left B-pillar (specify): cover-driver side Other left pillar (specify): (055)(176) Air bag compartment Unknown vehicle or object (599)cover-driver side and eyewear ADAPTIVE (ASSISTIVE) DRIVING (056) Left side window glass (177) Air bag compartment EQUIPMENT (057) Left side window frame NONCONTACT INJURY cover-driver side and jewelry (401) Hand controls for (058) Left side window sill (601) Fire in vehicle (178) Air bag compartment braking/acceleration (059) Left side window glass Flying glass (602)cover-driver side and object (402)Steering control devices (603)Other noncontact injury including one or more of the held (attached to OEM steering following: frame, window sill, (179) Air bag compartment wheel) A (A1/A2)-pillar, B-pillar, or (specify): cover-driver side and object in (403)Steering knob attached to roof side rail. (604)Air bag exhaust gases steering wheel Other left side object (060)(697) Injured, unknown source (180) Air bag-passenger side Replacement steering wheel (405)(specify): (181) Air bag-passenger side and (i.e., reduced diameter) evewear (406)Joy stick steering controls Air bag-passenger side and (182)(407) Wheelchair tie-downs RIGHT SIDE ieweln (408)Modification to seat belts. (101) Right side interior surface, (specify): excluding hardware or Additional or relocated armrests switches, (specify): (410) Raised roof

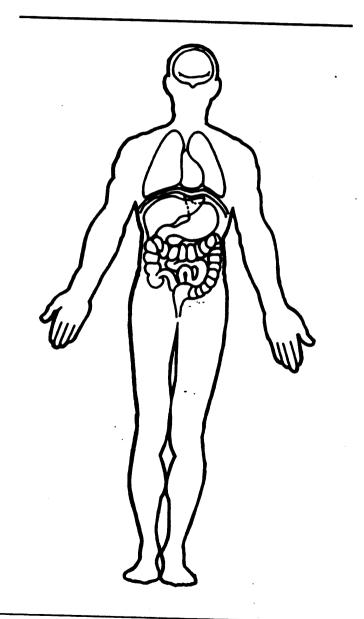
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

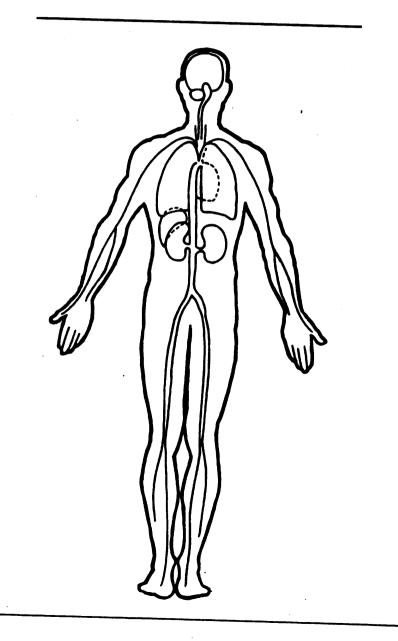


	OFFICIAL INJURY DATA — SKELETAL INJURIES	BEST AVAILA
Restrained?		
No	Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and unavailable.	
XX Yes	Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are	
	- Interview	
lood Alcohol Lev		
ng/di)		
BAL =O	(6-d)	
lasgow Coma cale Score		
	3 fractured	
CSS =	ribs on the last and	
	right side	
its of Blood ven	Seat belt	
nits =		
0	Fractured left hip	
erial Blood Gase	foot pedal	·
H =	intrusion	
O₂=		
co,		
co,		
		•
	/\(\\/\/\/\)	
	Fractured right	
	metatarsal	

Foot pedal

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





National Highway Traffic Safety Administration

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

OCCUPANT'S SEATING 1. Primary Sampling Unit Number 10. Occupant's Seat Position DS9614 2. Case Number - Stratum Front Seat (11) Left side 3. Vehicle Number (12) Middle (13) Right side 4. Occupant Number (14) Other (specify): OCCUPANT'S CHARACTERISTICS (15) On or in the lap of another occupant 5. Occupant's Age Second Seat Code actual age at time of accident. (21) Left side (00) Less than one year old (specify by month): (22) Middle (23) Right side (97) 97 years and older (24) Other (specify): (99) Unknown (25) On or in the lap of another occupant Third Seat (31) Left side 6. Occupant's Sex (32) Middle (1) Male (33) Right side (2) Female-not reported pregnant (34) Other (specify): (3) Female-pregnant-1st trimester(1st-3rd month) (35) On or in the lap of another occupant (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) Fourth Seat (6) Female-pregnant-term unknown (41) Left side (9) Unknown (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant 7. Occupant's Height Code actual height to the nearest (97) In or on unenclosed area (98) Other seat (specify):____ centimeter. (999) Unknown (99) Unknown 54 inches $\times 2.54 = 137$ centimeters 11. Occupant's Posture 8. Occupant's Weight (0) Normal posture Code actual weight to the nearest kilogram. Abnormal posture (999) Unknown (1) Kneeling or standing on seat (2) Lying on or across seat pounds X .4536 = Ø Z 6 kilograms (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another 9. Occupant's Role occupant or to look out a rear window (5) Sitting on a console (1) Driver (6) Lying back in a reclined seat position (2) Passenger (7) Bracing with feet or hands on a surface in front (9) Unknown of seat (8) Other abnormal posture (specify): (9) Unknown BEST AVAILABLE

EJECTION/ENTRAPMENT								
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unkn (9) Unknown	on	ф.	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown					
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g. (specify): (9) Unknown	.g., back of pickup, etc.)	<u></u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):					
14. Ejection Medium (0) No ejection (1) Door/hatch/tai (2) Nonfixed roof (3) Fixed glazing (4) Nonfixed glazi (5) Integral struct (8) Other medium (9) Unknown	ing (specify):	Φ	(2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown					

	BELT SYSTE	M FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper
	(9) Unknown	anchorage adjustment 23. Automatic (Passive) Belt System Availability/
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use
20	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 	(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat	(1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with
	 (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown 	child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown
	(3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor
		(7) Combination of above (specify):(8) Other automatic belt failure (specify):(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued		HEAD RESTRAINT AND SEAT EVALUATION
44.	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts	8	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
45	(88) Other damage source (specify): MODUE CALE & ROF RAIL (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	-	50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s)
	Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown		(08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
	Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed	2	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact
47.	 (9) Unknown Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact air bag (7) Not deployed (8) Unknown if deployed (9) Unknown 	ct to	(0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
	Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown		

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

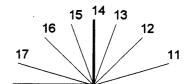
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

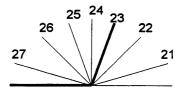
Slightly reclined prior to impact

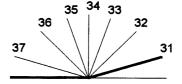
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHILD SA	AFETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	58. Child Safety Seat Harness Usage 59. Child Safety Seat Shield Usage 60. Child Safety Seat Tether Usage
56.	Type of Child Safety Seat (0) No child Safety Seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify):	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used
	(9) Unknown if child safety seat used Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	

INJURY CONSEQUENCES 61. Injury Severity (Police Rating) 63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (0) 0 - No injury (1) Trauma center (1) C - Possible injury (2) Hospital (2) B - Nonincapacitating injury (3) Medical clinic (3) A - Incapacitating injury (4) Physician's office (4) K - Killed (5) Treatment later at medical facility (5) U - Injury, severity unknown (8) Other (specify): (6) Died prior to accident (9) Unknown (9) Unknown 62. Treatment - Mortality 64. Hospital Stay (0) No treatment (00) Not Hospitalized (1) Fatal Code the number of days (up through 60) (2) Fatal - ruled disease (specify): that the occupant stayed in hospital. (61) 61 days or more (99) Unknown Nonfatal (3) Hospitalization 65. Working Days Lost (4) Transported and released Code the number of days (5) Treatment at scene - nontransported (up through 60) that the occupant (6) Treatment later lost from work due to the accident (7) Treatment - other (specify): (00) No working days lost (61) 61 days or more (8) Transported to a medical facility-unknown if (62) Fatally injured treated (97) Not working prior to accident (9) Unknown (99) Unknown **EMERGENCY RESPONSE INFORMATION EMS Type EMS Notification** (01)Fire department Not notified (1) (2)Notified (02)Rescue squad (03)Police department (9)Unknown (04)Trauma unit (05)Disaster unit EMS NotificationTime (06)Ambulance service unit (07)Hospital (9999) Unknown

(80) Mortuaries/funeral homes Other, specifiy: (98)(99)Unknown **EMS Arrival Time** (9998) EMS cancelled or did EMS Care (on scene or during transport) not arrive No care administered (9999)Unknown (01)(02)First aid (03)Resuscitation (04)**CPR** EMS Departure Time To Treatment Facility (05)Emergency cardiac care EMS arrived, provided (06)Life support system monitoring (blood pressure, (9997)treatment, but did not pulse rate, respiration, EKG) (07)Emergency burn care transport (80)Combination of above, specify: __ (9998)EMS arrived, but was Other, specify: _ (98)not used (9999)Unknown (99)Unknown EMS Arrival Time At Treatment Facility (9999) Unknown

STOP WORK HERE VARIABLES 66-74 TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>37</u> =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death	<u> </u>	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units):
69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	ψ3	(9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):		BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	<u>4</u> 9	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

Administration

National Highway Traffic Safety

BEST AVAILABLE

Form Approved O.M.B. No. 2127-0021

OCCUPANT INJURY FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 3. Vehicle Number

- 2. Case Number Stratum
- D59610
- 4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 9 Specific Anatomic Structure	0 Level of Injury	A.I.S. Severity	- Aspect	Injury Source	Injury Source Confidence Level	Occupant Direct/ Indirect Injury	Area Intrusion Number	ICD-9
200000					9. <u>74</u>					14. 1	15.4.0	3 <i>1</i> 85
2nc	1 162	17. <u>L</u>	18.4	19. <u>Ø6</u>	20.50	21 <u>4</u>	22. 9 23.	184	2 24 <u>l</u>	25.]_	26. <u>4 </u>	<u>852.25</u>
30000					31. <u>78</u>					36	37. 44	852.25
					42. <u>/_</u>							518 <i>4</i>
20000000 0.000000					55. 中上					58. 1	59 <u>6 4</u>	<u> Bib o</u> l
					64.B.£					69. 1	70 <u>. ФФ</u>	8 <u>25 as</u> _
					75. <u>Ø.2</u>						81. <u>&Ø</u>	
					86. <u>p. 2-</u>					91	92. <u>U.L</u>	922.2
9th	932	s4 <u>4</u>	95. <u>9</u> 8	ю. <u>ф4</u>	97. <u>Ø2</u>	98.	99. 4100.	152	101. 1	102 1	03. <u>46</u>	<u>qu</u>)
10th	104	105	106 16	071	08	109	110111.		112	113 1	14	

OCCUPANT INJURY CLASSIFICATION

Body Region Specific Anatomic Level of Injury **Aspect** Structure Head Specific injuries are (2) (3) Right Face assigned consecutive Left Neck Vessels, Nerves, Organs. (4) (5) (6) (7) two-digit numbers beginning Bilateral Thorax Bones, Joints are assigned with 02. (4) Central Abdomen consecutive two digit (5) Spine Anterior numbers beginning with 02. To the extent possible, within (6) Upper Extremity **Posterior** the organizational (8) (7) Superior Lower Extremity The exceptions to this rule framework of the AIS, 00 is (8) **(9)** Inferior Unspecified apply to: assigned to an injury NFS as (9) Unknown to severity or where only one (0)Whole region Whole Area injury is given in the Type of Anatomic (02)Skin - Abrasion dictionary for that anatomic Structure (04)Skin - Contusion structure. 99 is assigned to (06) Skin - Laceration any injury NFS as to lesion Whole Area (80)Skin - Avulsion or severity. (2) (3) Vessels (10) Amputation Nerves (20) Burn Abbreviated Injury Scale (4) Organs (includes (30) Crush Muscles/ligaments) (40) Degloving Minor Injury (5)Skeletal (includes (50)Injury - NFS (2) (3) (4) (5) Moderate Injury joints) Head - LOC (90) Trauma, other than Serious Injury mechanical Severe Injury (9) Skin Critical Injury Head - LOC (6) Maximum (02) Length of LOC (untreatable) (7) Injured, unknown (04)Level severity (06)of (80) Consciousness (10) Concussion <u>Spine</u> (02)Cervical (04)Thoracic (06)Lumbar SOURCE OF INJURY DATA

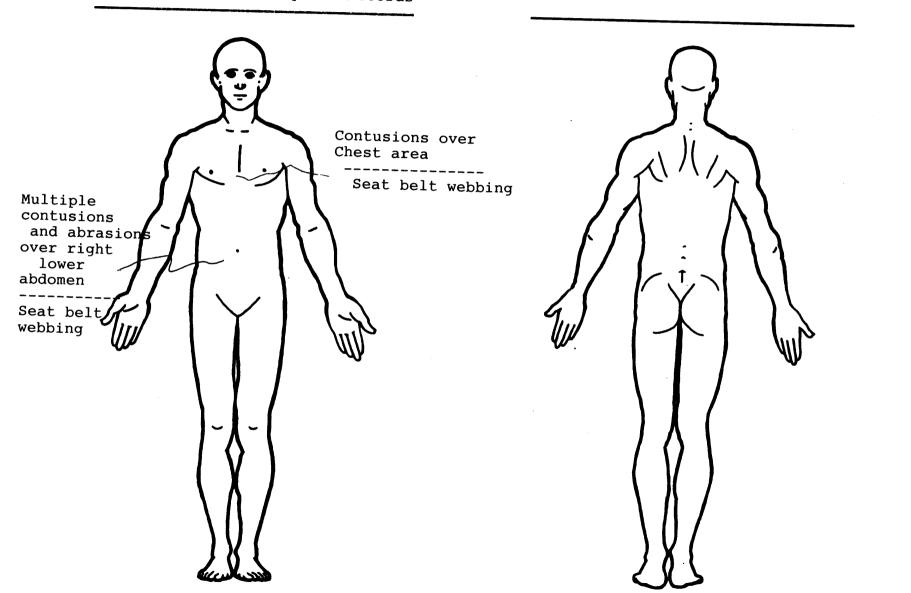
SOURCE OF INJURY DATA	INJURY SOURCE	DIRECT/INDIRECT INJURY
OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify):	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source

					JRCES		
FR	ONT	(10	2) Right side hardware or	(18	Air bag-passenger side and		
(00	•	•	armrest	(10	object held	(41	(us
(00		(10	3) Right A (A1/A2)-pillar	(18	Air bag-passenger side and		behind wheel chair)
(00	•	(10	4) Right B-pillar	. (.0	object in mouth	(41	,
(00	•	(10	· ·	(18	5) Air bag compartment		(specify):
(00	· · · · · · · · · · · · · · · · · · ·			(cover-passenger side		
(00	, and the following the state of the state o	(10	6) Right side window glass	(18	Air bag compartment	EV	750.00
	of codes 004 and 005)	(10		(cover-passenger side and		TERIOR of OCCUPANT'S
(00	0	(10			eyewear		HICLE
	selector lever, other	(10		(187	Air bag compartment	,	1) Hood
	attachment		including one or more of the	(cover-passenger side and	(45)	(0.8.)
(008	,		following: frame, window sill		jewelry	/45	outside mirror, antenna)
(009	, and a desirent (o.8.) tabo		A (A1/A2)-pillar, B-pillar, or	(188	•	(453	
	deck, air conditioner)		roof side rail.	(cover-passenger side and		(specify):
(010) Left instrument panel and	(110) Other right side object		object held	(4E.	0 11-1
	below		(specify):	(189		(454	i) Unknown exterior objects
(011) Center instrument panel and			(1.55)	cover-passenger side and	EVT	FRIOR OF CTUEN
	below				object in mouth		ERIOR OF OTHER MOTOR
(012)) Right instrument panel and	INTE	RIOR	(190)	•		IICLE
	below	(151) Seat, back support	(150)	- mor an way (shacity)) Front bumper
(013)		(152		(195)	Other air bag compartment	(502)	•
(014)		(153		(155)	cover (specify)	(503)	
(015)	, and a second contract of		frame attachment point		cover (specify)		(specify):
	more of the following: front	(154)					
	header, A (A1/A2)-pillar,	, ,	component (specify):	ROO	=	(504)	
	instrument panel, mirror, or		(,	(201)		(505)	
	steering assembly (driver side	(155)	Head restraint system	(202)	Rear header	(506)	and the principle
	only)		Other occupants (specify):	(203)	Roof left side rail	(507)	
(016)			от трание (оросну).	(204)	Roof right side rail	(508)	
	more of the following: front	(161)	Interior loose objects	(205)		(509)	p
	header, A (A1/A2)-pillar,	(162)	•	(200)	receive tible top		(specify):
	instrument panel, or mirror			FLOO	R	(540)	
	(passenger side only)	(163)	Other interior object (specify):		Floor (including toe pan)	(510)	
(017)	Windshield reinforced by		сојскі (органу).	(252)	Floor or console mounted	(511)	Undercarriage
	exterior object (specify)			(202)	transmission lever, including	(512)	Tires and wheels
		AIR B	AG		console	(513)	
(019)	Other front object (specify):	(170)	Air bag-driver side	(253)	Parking brake handle		vehicle (specify):
			Air bag-driver side and	(254)	Foot controls including	(E4.A)	
			eyewear	(== ,)	parking brake	(514)	Unknown exterior of other
EFT S		(172)	Air bag-driver side and jewelry		paining blake		motor vehicle
051)	Left side interior surface,	(173)	Air bag-driver side and object	REAR		07115	D. 1
	excluding hardware or		held		Backlight (rear window)		R VEHICLE OR OBJECT IN
	armrests	(174)	Air bag-driver side and object	(302)	Backlight storage rack,		NVIRONMENT
	Left side hardware or armrest		in mouth		door, etc.		Ground
	Left A (A1/A2)-pillar	(175)	Air bag compartment		Other rear object (specify):	(598)	Other vehicle or object
	Left B-pillar		cover-driver side	(555)	Cition real object (specify):		(specify):
)55)	Other left pillar (specify):	(176)	Air bag compartment		······································	(E00)	Habania with the same
			cover-driver side and eyewear	ADAPT	VE (ASSISTIVE) DRIVING	(599)	Unknown vehicle or object
	Left side window glass	(177)	Air bag compartment	EQUIPA		NONO	DAITA OT IN HIER
	Left side window frame		cover-driver side and jewelry		Hand controls for		ONTACT INJURY
_	Left side window sill	(178)	Air bag compartment		praking/acceleration		Fire in vehicle
	Left side window glass		cover-driver side and object		Steering control devices		Flying glass
	ncluding one or more of the		held		attached to OEM steering		Other noncontact injury
f	ollowing: frame, window sill,	(179)	Air bag compartment		wheel)		source
,	A (A1/A2)-pillar, B-pillar, or		cover-driver side and object in		Steering knob attached to		(specify):
	oof side rail.		nouth		teering wheel		Air bag exhaust gases
50) C	Other left side object	(180)	Air bag-passenger side		_	(697)	njured, unknown source
(:	specify):		Air bag-passenger side and		Replacement steering wheel		
_			ryewear		.e., reduced diameter)		
			Air bag-passenger side and		oy stick steering controls		
SHT S			welry		Vheelchair tie-downs		
11) R	ight side interior surface,	,	•	_	odification to seat belts,		
	xcluding hardware or				dditional or releasted		
a	rmrests				dditional or relocated		
				S\	vitches, (specify):		

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source

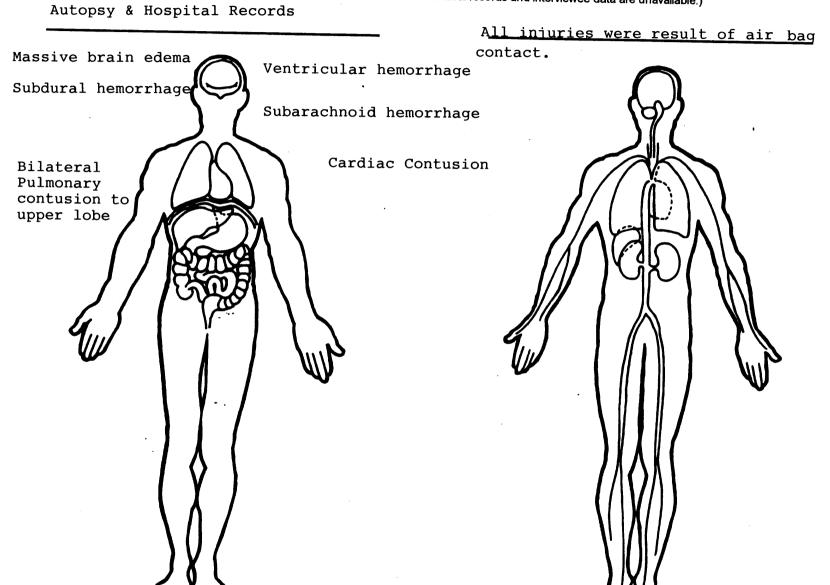
of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Autopsy and Hospital Records



OFFICIAL INJURY DATA —INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



OFFICIAL INJURY DATA	- SKELETAL	INJURIES.
		INSOUIES

Restrained?

— No —x^Yes Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are

Blood Alcohol Level (mg/dl)

BAL = 0

Glasgow Coma Scale Score

 $GCSS = _{03}$

Units of Blood Given

Units = 0

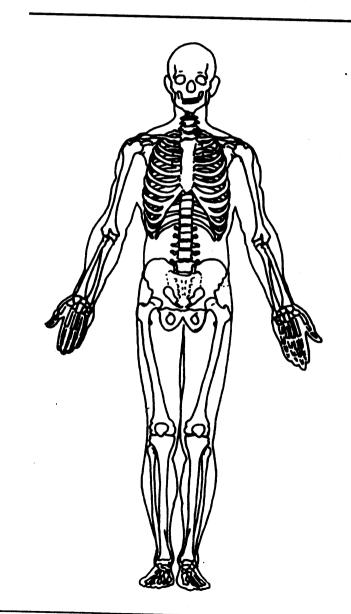
Arterial Blood Gases

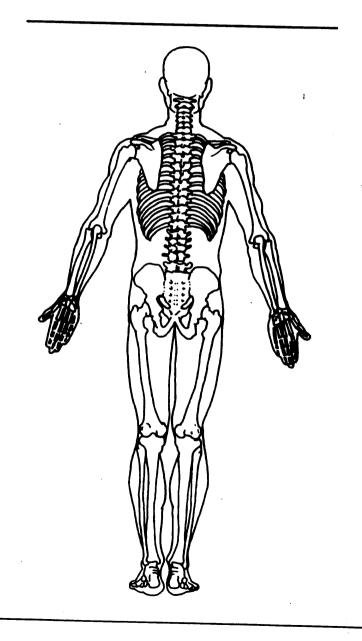
pH = _____

-O₂- ___

PCO₂

HCO, ____





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Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety **OCCUPANT INJURY FORM** Administration

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

059610

4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Course	A.I.S 90							Injury	•	Occupant	
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
1st	<u>5.9</u>	6	,9	1. <u>66</u>	ه مل مل	10. <u> </u>	11.212	627	. 13 <u>9</u>	14.7	15 <u> </u>	873.9
2nd	16. 9	17 <u>8</u>	18.9_	19. <u># 4</u>	20.42	21	292	617	24. <u>9</u>	25. 7	26. <u>P</u> <u>P</u>	9245
3rd	27	28.4	29 <u>9</u>	30 <u>4</u> 4	31. <u>4. 7.</u>	32 <u>1</u>	33. <u>4</u> 34.	150	<u>s.3</u>	36. <u>1</u>	э <i>т. <u>Ф</u>ф</i>	922.)
4th	38	39	40	41	42	43	4445.		46	47	48	
5th	49:	50	51	52	53	54	55:56:		57	58	59	
6th	60	61	62	53	64	65	6667.		68	69	70	
7th	71	72	73 :	74	75	76	7778.		79	80 1	31. <u> </u>	
8th	82	83	84 &)5	86	87	8889.		90	91 9	92	
9th	93	94	95 9	6	97	98	99100.		101	102 1	03	
10th	104	105	106 10	or1	08	109	110111.		112	113 11	14	

Right

Bilateral

Central

Anterior

Posterior

Superior

Unknown

Whole region

Inferior

Left

OCCUPANT INJURY CLASSIFICATION **Body Region** Specific Anatomic Level of Injury **Aspect** Structure Head Specific injuries are (2) (3) (4) (5) (6) (7) Face assigned consecutive Neck Vessels, Nerves, Organs. two-digit numbers beginning Thorax Bones, Joints are assigned with 02. Abdomen (4) consecutive two digit (5) Spine numbers beginning with 02. To the extent possible, within (6) Upper Extremity the organizational (8) Lower Extremity The exceptions to this rule framework of the AIS, 00 is (9) (8) Unspecified apply to: assigned to an injury NFS as to severity or where only one Whole Area injury is given in the Type of Anatomic (02)Skin - Abrasion dictionary for that anatomic structure. 99 is assigned to Structure (04) Skin - Contusion (06) Skin - Laceration any injury NFS as to lesion Whole Area (80)Skin - Avulsion or severity. (2) (3) Vessels (10)Amputation Nerves (20)Burn **Abbreviated Injury Scale** (4) Organs (includes (30)Crush Muscles/ligaments) Degloving (40)Minor Injury (5) Skeletal (includes (50) Injury - NFS (2) (3) Moderate Injury joints) Head - LOC (90) Trauma, other than Serious Injury mechanical (4) (5) Severe Injury (9) Skin Critical Injury Head - LOC **(6)** Maximum (02) Length of LOC (untreatable) lnjured, unknown (04)Level severity (06)of (80)Consciousness (10) Concussion

<u>Spine</u> (02)

(04)

(06)

Cervical

Thoracic

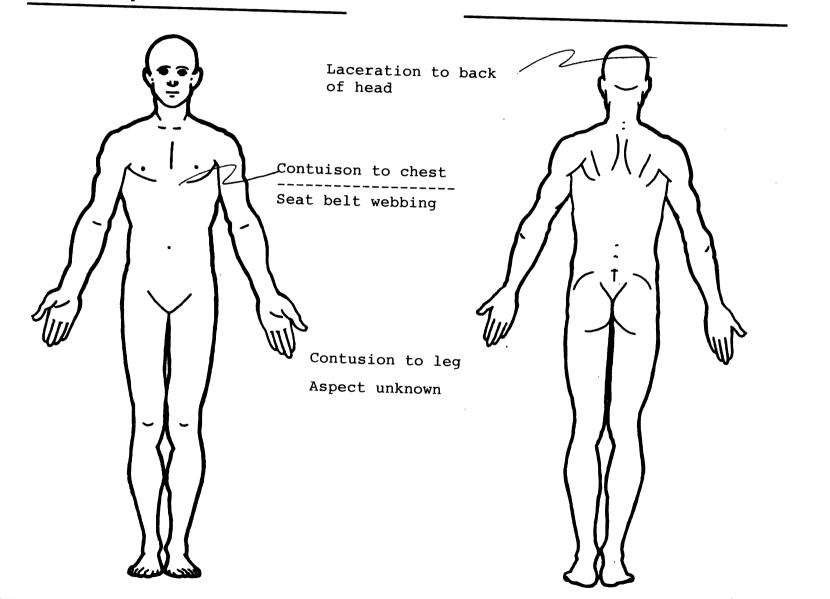
Lumbar

SOURCE OF INJURY DATA	INJURY SOURCE CONFIDENCE LEVEL	DIRECT/INDIRECT INJURY
OFFICIAL RECORDS Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify):	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source

			IIVJUI	XY 50	URCES		
FF	RONT	(1	02) Right side hardware or	(1	83) Air bag passanger elde e	- 4	
,	01) Windshield	,	armrest	(,	 Air bag-passenger side as object held 	nd (4	111) Wall mounted head rest (us
1 '	02) Mirror	(10	03) Right A (A1/A2)-pillar	(1	84) Air bag-passenger side ar	/	behind wheel chair)
1	03) Sunvisor	(10	04) Right B-pillar		object in mouth	1a (4	112) Other adaptive device
	04) Steering wheel rim	(10	05) Other right pillar (specify):	(1	85) Air bag compartment		(specify):
1 '	05) Steering wheel hub/spoke			``	cover-passenger side		
(00	06) Steering wheel (combination	(10	6) Right side window glass	(18	36) Air bag compartment	=	TEDIOD (COOK TO COOK
	of codes 004 and 005)	(10		,,,	cover-passenger side and		KTERIOR of OCCUPANT'S
(00	, a	(10			eyewear		EHICLE
	selector lever, other	(10	9) Right side window glass	(18	37) Air bag compartment		51) Hood
/05	attachment		including one or more of the	,	cover-passenger side and	(4)	52) Outside hardware (e.g.,
(00	· · · · · · · · · · · · · · · · · · ·		following: frame, window sil		jewelry	(4)	outside mirror, antenna)
(00	, and the state of		A (A1/A2)-pillar, B-pillar, or	(18		(40	53) Other exterior surface or tire
(0.4)	deck, air conditioner)		roof side rail.	`	cover-passenger side and		(specify):
(010	, panorana	(110	Other right side object		object held	(45	(4) Unknown auto-ing til d
	below		(specify):	(18	•	(40	4) Unknown exterior objects
(011	, and a second part and			,	cover-passenger side and	EV	TERIOR OF OTHER MODES
	below				object in mouth		TERIOR OF OTHER MOTOR HICLE
(012	· · · · · · · · · · · · · · · · · · ·	INT	ERIOR	(19	•		
,	below	(151) Seat, back support	,	-, an way (abacity)		1) Front bumper
(013	,	(152		(19	Other air bag compartment	_ (50	,
(014		(153		(,,,	cover (specify)	(50	
(015			frame attachment point		Gover (specify)		(specify):
	more of the following: front	(154					
	header, A (A1/A2)-pillar,		component (specify):	ROC)F	(504	
	instrument panel, mirror, or			(201		(505	,
	steering assembly (driver side	(155)	Head restraint system	(202		(506	, intractional transfer
	only)	(160)	•	(203		(507	,
(016)	3 0.,0 0,			(204		(508	,
	more of the following: front	(161)	Interior loose objects	(205		(509	, , , , , , , , , , , , , , , , , , , ,
	header, A (A1/A2)-pillar,	(162)		(200)	roof of convertible top		(specify):
	instrument panel, or mirror			FLO	OR ·	(540	
	(passenger side only)	(163)	Other interior object (specify):		Floor (including toe pan)	(510	
(017)	Windshield reinforced by			(252)		(511)	
	exterior object (specify)			(202)		(512)	
		AIR B	AG		transmission lever, including console	(513)	
(019)	Other front object (specify):	(170)	Air bag-driver side	(253)			vehicle (specify):
			Air bag-driver side and	(254)			
			eyewear	(204)	and an analysis	(514)	
EFT :	_	(172)	Air bag-driver side and jewelry		parking brake		motor vehicle
051)	Left side interior surface,	(173)	Air bag-driver side and object	REAR			
	excluding hardware or		held	(301)			ER VEHICLE OR OBJECT IN
	armrests	(174)	Air bag-driver side and object	(302)	0 ·· (· - ··· · · · · · · · · · · · · · ·		ENVIRONMENT
052)	Left side hardware or armrest		in mouth	(002)	door, etc.		Ground
053)	Left A (A1/A2)-pillar	(175)	Air bag compartment	(303)		(598)	Other vehicle or object
	Left B-pillar	` '	cover-driver side	(303)	Other rear object (specify):		(specify):
)55)	Other left pillar (specify):	(176)	Air bag compartment				
			cover-driver side and eyewear	ADAD		(599)	Unknown vehicle or object
)56)	Left side window glass		Air bag compartment		TIVE (ASSISTIVE) DRIVING		
157)	Left side window frame		cover-driver side and jewelry	EQUIP			ONTACT INJURY
58)	Left side window sill		Air bag compartment	(401)	Hand controls for	(601)	Fire in vehicle
59)	Left side window glass		cover-driver side and object	(400)	braking/acceleration	(602)	Flying glass
	including one or more of the		held	(402)	Steering control devices	(603)	Other noncontact injury
	following: frame, window sill,		Air bag compartment		(attached to OEM steering		source
/	A (A1/A2)-pillar, B-pillar, or		cover-driver side and object in		wheel)		(specify):
	roof side rail.		mouth		Steering knob attached to	(604)	Air bag exhaust gases
60) (Other left side object		Air bag-passenger side		steering wheel	(697)	Injured, unknown source
,	(specify):		Air bag-passenger side and		Replacement steering wheel		
'			Syewear		(i.e., reduced diameter)		
-			Air bag-passenger side and		Joy stick steering controls		
-			vay-hassauder side and	(407)	Wheelchair tie-downs		
) - 3HT S							
- Энт s	SIDE		ewelry		Modification to seat belts,		
- GHT S (1) R				(specify):		
- SHT S (1) R	SIDE Right side interior surface,			(409) A	specify): Additional or relocated		
- SHT S (1) R	SIDE Right side interior surface, xcluding hardware or			(409) A	specify):		

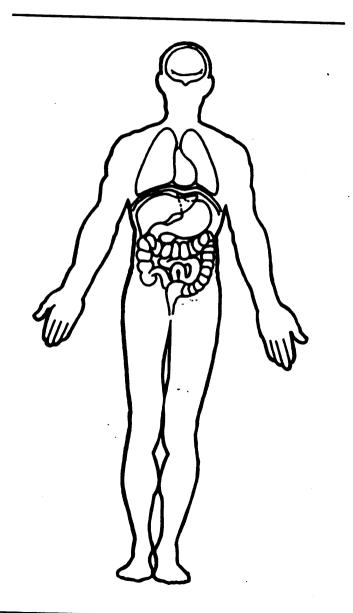
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

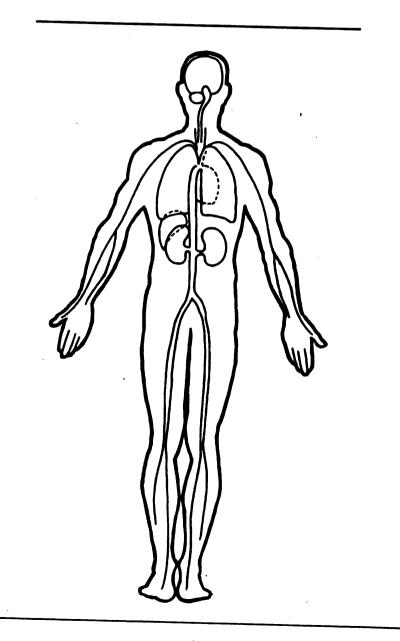
Police Report



OFFICIAL INJURY DATA —INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





	OFFICIAL INJURY DATA — SKEL	BEST AVAIL ETAL INJURIES
Restrained? No	ndicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head in ource of all injuries indicated by official sources (or from PAR or other unofficial sources if	niury clinical signs and neurological defeits), and
Yes	ource of all injuries indicated by official sources (or from PAR or other unofficial sources if navailable.)	medical records and interviewee data are
ilood Alcohol Level ng/di)		
SAL =	tood .	
lasgow Coma cale Score		
nits of Blood ven nits =		
erial Blood Gases		
CO ₂ =		
co,		

GENERAL VEHICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM

Administration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number	12. Speed Limit ϕ 8 1
2. Case Number - Stratum DS96 10	(000) No statutory limit Code posted or statutory speed limit in kmph
3. Vehicle Number	(999) Unknown
VEHICLE IDENTIFICATION	55 mph X 1.6093 = 489 kmph
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present
5. Vehicle Make (specify): \checkmark	(9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given
6. Vehicle Model (specify): CAND AM Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	(97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present
8. Vehicle Identification Number 1620514367MXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(7) Not reported (8) No driver present (9) Unknown
Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	 (3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
(4) Military (5) Police	17. Driver's Zip Code
(6) Ambulance (7) Fire truck or car (8) Other (specify):	(00001) Driver not a resident of U.S. or territories
(9) Unknown OFFICIAL RECORDS	Code actual 5-digit zip code (99998) No driver present (99999) Unknown
1	(33939) OHKHOWII
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic)
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	(5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present
mph Y 1 6092 — kmph	(9) Unknown

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,536 kgs GVWR)
- (23) Van based motorhome (≤ 4,536 kgs GVWR)
- (24) Van based school bus (≤ 4,536 kgs GVWR)
- (25) Van based other bus (≤ 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4.536 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR ≤ 8,845 kgs)
- (62) Single unit straight truck (8,845 kgs < GVWR ≤ 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)(78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	DDCCDACIL ENIVEDONINGENTAL DATA		
	PRECRASH ENVIRONMENTAL DATA	25. Roadway Surface Condition	2
4.0	51 / 51 / 6 / A	(1) Dry	
19.	Relation To Interchange Or Junction	(2) Wet	
	(0) Non-interchange area and non-junction	(3) Snow or slush	
	(1) Interchange area related	(4) Ice	
		(5) Sand, dirt, or oil	
	Non-Interchange junctions	(8) Other (specify):	
	(2) Intersection related	(9) Unknown	
	(3) Driveway, alley access related	(o) onknown	
	(4) Other junction (specify)		ì
		26. Light Conditions	
	(5) Unknown type of junction	(1) Daylight	
	(0) 11.1	(2) Dark	
	(9) Unknown	(3) Dark, but lighted	
	,	(4) Dawn	
20	T	(5) Dusk	
20.	Trafficway Flow Ψ	(9) Unknown	
	(0) Not physically divided (two way traffic)		
	(1) Divided trafficway-median strip without positive		1
	barrier	27. Atmospheric Conditions	
	(2) Divided trafficway-median strip with positive	(0) No adverse atmospheric-related driving	
	barrier	conditions	
	(3) One way traffic	(1) Rain	
	(9) Unknown	(2) Sleet/hail	
	1	(3) Snow	
21.	Number Of Travel Lanes	(4) Fog	
	(1) One	(5) Rain and fog	
	(2) Two	(6) Sleet and fog	
	(3) Three	(7) Other (e.g., smog, smoke, blowing sand or	
	(4) Four	dust, etc.) (specify):	
	(5) Five	-	
	(6) Six	(9) Unknown	
	(7) Seven or more		1
	(9) Unknown	28. Traffic Control Device	Ф_
		(0) No traffic control(s)	1
22	Roadway Alignment 3	(1) Traffic control signal (not RR crossing)	
	(1) Straight	Description .	
	(2) Curve right	Regulatory	
	(3) Curve left	(2) Stop sign	
	(9) Unknown	(3) Yield sign	
	(6) 5	(4) School zone sign	
	İ	(5) Other regulatory sign (specify):	
	Roadway Profile	(6) Warning sign (not RR crossing)	
	(1) Level	(7) Unknown sign	
	(2) Uphill grade (>2%)	(8) Miscellaneous/other controls including RR	
	(3) Hill crest	controls (specify):	
	(4) Downhill grade (>2%)	controls (specify).	
	(5) Sag	(9) Unknown	
	(9) Unknown	(o) Shkhown	
	A		
24.	Roadway Surface Type	29. Traffic Control Device Functioning	d)
	(1) Concrete	(0) No traffic control device	*
	(2) Bituminous (asphalt)	(1) Traffic control device not functioning	
	(3) Brick or block	(specify):	
	(4) Slag, gravel, or stone	• •	
	(5) Dirt	(2) Traffic control device functioning properly	
	(8) Other (specify):	(9) Unknown	
	9) Unknown		

	PF	RECRASH DRIVER RELATED DATA		S VEHICLE TRAVELLING Over the lane line on left side of travel lane
30.	Drive	er's Distraction/Inattention To Driving $Q Q$		Over the lane line on right side of travel lane
		r To Recognition Of Critical Event)	(12)	Off the edge of the road on the left side
		No driver present		Off the edge of the road on the right side
		Attentive or not distracted	(14)	End departure
	(02)	Looked but did not see	(15)	Turning left at intersection
		Distractions		Turning right at intersection
	(03)	By other occupant(s), (specify):	(17)	Crossing over (passing through) intersection
	(O.4)	Down death and the second of t		This vehicle decelerating Unknown travel direction
	(04)	By moving object in vehicle (specify):	(19)	Unknown travel direction
	(05)	While talking or listening to cellular phone (specify	OTH	IER MOTOR VEHICLE IN LANE
	(,	location and type of phone):		Other vehicle stopped
				Traveling in same direction with lower steady
	(06)	While dialing cellular phone (specify location and	` ′	speed
		type of phone):		Traveling in same direction while decelerating
	(07)	While adjusting climate controls	(53)	Traveling in same direction with higher speed
	(08)	While adjusting radio, cassette, CD (specify):		Traveling in opposite direction
	(,			In crossover Backing
	(09)	While using other device/controls integral to		Unknown travel direction of other motor vehicle in
		vehicle (specify):	(59)	lane
	(10)	While using or reaching for device/object brought		
	(11)	into vehicle (specify): Sleepy or fell asleep	OTH	IER MOTOR VEHICLE ENCROACHING INTO
	(12)	Distracted by outside person, object, or event	LAN	
		(specify):	(60)	From adjacent lane (same direction)—over left
	(13)	Eating or drinking		lane line
	(14)	Smoking related	(61)	From adjacent lane (same direction)—over right
	(97)	Distracted/inattentive, details unknown	(00)	lane line
	(98)	Other, distraction (specify):	(62)	From opposite direction—over left lane line
	(99)	Unknown		From opposite direction—over right lane line
24	, ,	1 /		From parking lane From crossing street, turning into same direction
3 1.		Event Movement (Prior to	(66)	From crossing street, across path
	(00)	No driver present	(67)	From crossing street, turning into opposite
	(01)	Going straight	(**/	direction
	(02)	Decelerating in traffic lane	(68)	From crossing street, intended path not known
	(03)	Accelerating in traffic lane	(70)	From driveway, turning into same direction
	(04)	Starting in traffic lane	(71)	From driveway, across path
	(06)	Stopped in traffic lane Passing or overtaking another vehicle	(72)	From driveway, turning into opposite direction
	(07)	Disabled or parked in travel lane	(73) (74)	From driveway, intended path not known From entrance to limited access highway
	(80)	Leaving a parking position		Encroachment by other vehicle—details unknown
	(09)	Entering a parking position	(,0)	Enclosed the by other verticie—details driving
	(10)	Turning right	PED	ESTRIAN, PEDALCYCLIST, OR OTHER
		Turning left		IMOTORIST
	(12)	Making a U-turn	(80)	Pedestrian in roadway
	(14)	Backing up (other than for parking position) Negotiating a curve	(81)	Pedestrian approaching roadway
		Changing lanes		Pedestrian—unknown location
	(16)	Merging	(83)	Pedalcyclist or other nonmotorist in roadway
	(17)	Successful avoidance maneuver to a previous	(anacif ()	
	(07)	critical event	(specify)	Pedalcyclist or other nonmotorist approaching
	(97)	Other (specify): Unknown	(04)	roadway, (specify):
	` '	l i	(85)	Pedalcyclist or other nonmotorist—unknown
32 .	Critic	cal Precrash Event <u>🗘 💯</u>	(55)	location
		VEHICLE LOSS OF CONTROL DUE TO:	(specify)	<u>;</u>
		Blow out or flat tire		
		Stalled engine		ECT OR ANIMAL
	(U3)	Disabling vehicle failure (e.g., wheel fell off) (specify):		Animal in roadway
	(04)	Non-disabling vehicle problem (e.g., hood flew up)		Animal approaching roadway
		(specify):		Animal—unknown location
	(05)	Poor road conditions (puddle, pot hole, ice, etc.)		Object in roadway Object approaching roadway
		(specify):	(92)	Object—unknown location
	(D8)	Traveling too fast for conditions		Other critical precrash event (specify):
	(00)	Other cause of control loss (specify):		
	(09)	Unknown cause of control loss	(99)	Unknown
	` -,			

Category	Configur- ation	ACCIDENT TYPES (includes intent)	**************************************
	A. Right Roadside Departure	DRIVE OFF CONTROL/ TRACTION LOSS WITH VEH. PED. ANIM. OTHER	05 SPECIFICS UNKNOWN
l Single driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS OTHER	10 SPECIFICS UNKNOWN
	C. Forward Impact	PARKED VEHICLE STA. OBJECT PEDESTRIAN/ ANIMAL END SPECIFICS OTHER	16 SPECIFICS UNKNOWN
cway ction	D. Rear-End	20 22 24 26 28 30 (EACH• 32) (STOPPED 21,22,23 25,26,27 29,30,31 SPECIFICS OTHER	EACH • 33) SPECIFICS UNKNOWN
II Same Trafficway Same Direction	E. Forward Impact	34 35 36 37 38 39 40 (EACH- 42) CONTROL/ TRACTION LOSS CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT (EACH- 42) SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN
	F. Sideswipe/ Angle	46 45 45 47 SPECIFICS OTHER SPECIFICS U	1• 49) NKNOWN
yr ctlon	G. Head-On	(EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN	
Same Trafficway Opposite Direction	H. Forward Impact	54 55 56 57 58 60 (EACH • 62 SPECIFICS OTHER TRACTION LOSS TRACTION LOSS WITH VEHICLE WITH OBJECT	SPECIFICS UNKNOWN
=	I. Sideswipe/ Angle	(EACH • 66) (EACH • 67) SPECIFICS OTHER SPECIFICS UNKNOWN	
N Change Trafficway Vehicle Turing	J. Turn Across Path	68 71 70 73 72 (EACH • 74) INITIAL OPPOSITE DIRECTIONS INITIAL SAME DIRECTION OTHER	(EACH • 75) SPECIFICS UNKNOWN
	K. Turn Into Path	77 79 78 80 81 82 (EACH• 84) 80 81 SPECIFICS OTHER	(EACH • 85) SPECIFICS UNKNOWN
v Intersecting Paths (Vehice Damage)	L. Straight Paths	87 89 (EACH• 90) SPECIFICS OTHER SPECIFIC	91) es unknown
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEHICLE OR OBJECT BACKING VEHICLE ON NO impact 98 Other Accident Type 99 Unknown Accident Type 00 No impact	

Source:

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wall
	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(32) No rollover impact initiation (end-over-end)	(62) Fire hydrant
(34) Jackknife	(63) Curb
(0.7, 0.00	(64) Bridge
Collision With Fixed Object	(68) Other fixed object (specify):
(41) Tree (≤ 10 cm in diameter)	(00)
(42) Tree (> 10 cm in diameter)	(69) Unknown fixed object
(43) Shrubbery or bush	(oo, o.m.oom mod object
(44) Embankment	Collision with Nonfixed Object
(· · · / = · · · · · · · · · · · · · · ·	(70) Passenger car, light truck, van, or other
(45) Breakaway pole or post (any diameter)	vehicle not in-transport
(10, Extenditure, policies pool (unity diamotol)	(71) Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
(51) Pole or post (> 10 cm but ≤ 30 cm in	(78) Trailer, disconnected in transport
diameter)	(79) Object fell from vehicle in-transport
(52) Pole or post (> 30 cm in diameter)	(88) Other nonfixed object (specify):
(53) Pole or post (diameter unknown)	(oo) other hermada object (specify).
(ac) i did di pode (didinato) dinanovin	(89) Unknown nonfixed object
(54) Concrete traffic barrier	(00) Olikilowii ilolilikea object
(55) Impact attenuator	(98) Other event (specify):
(56) Other traffic barrier (includes guardrail)	(30) Other event (specify).
(specify):	(99) Unknown event or object
(Specify).	(33) Ournown event of object

Page 6

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
51. Front Override/Underride (this Vehicle)	ha
 52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, 	58. Basis for Total (Resultant) Delta V (highest) (ΟΟ) No vehicle inspection
and no medium/heavy truck or bus underride	(00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) (Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
(7) Medium/heavy truck or bus override (of any configuration)(9) Unknown	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction frogram or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (996) Non-horizontal impact (997) Noncollision (998) Impact with object (999) Unknown	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object
53. Heading Angle For This Vehicle	(10) Overlapping damage (11) All vehicle and collision conditions are within
54. Heading Angle For Other Vehicle	scope of one of the acceptable reconstruction
RECONSTRUCTION DATA	programs, but there is insufficient data available, (specify):
55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted < 45 degrees (4) Tilted ≥ 45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
(9) Unknown	

COMPUTER GENERATED CRASH SEVERITY						
59. Total Delta V Highest	63. Impact Speed Highest 9 9 8					
46,2 Nearest kmph (highest)	Nearest kmph (highest)					
Nearest kmph (secondary)	Nearest kmph (secondary)					
(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown Highest	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown					
60. Longitudinal Component of Polita V 3 5	DELTA V CONFIDENCE LEVEL					
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable					
61. Lateral Component of Delta V + /	OTHER SPEED ESTIMATE					
-19.7 Nearest kmph (highest)	Highest 65. Barrier Equivalent Speed					
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest 62. Energy Absorption Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown	Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown					
	,					

ESTIMATED DELTA V	INSPECTION TYPE
6. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	
	WAS NOT INSPECTED (I.E., GV67=0), *** IOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

4 Driver Complian Heis Noveber	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	10. Occupant's Seat Position
2. Case Number - Stratum DS 96 1 \$\psi\$	Front Seat
3. Vehicle Number ϕ 2	(11) Left side
	(12) Middle (13) Right side
4. Occupant Number	(14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age	Second Seat
Code actual age at time of accident.	(21) Left side
(00) Less than one year old (specify by month):	(22) Middle (23) Right side
(97) 97 years and older	(24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	Third Seat
j	(31) Left side
6. Occupant's Sex	(32) Middle (33) Right side
(2) Female-not reported pregnant	(34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side
(9) Unknown	(42) Middle
	(43) Right side (44) Other (specify):
10	(45) On or in the lap of another occupant
7. Occupant's Height	(97) In or on unenclosed area
centimeter.	(98) Other seat (specify):
(999) Unknown	(99) Unknown
7 3 inches X 2.54 = centimeters	
<u></u>	9
8. Occupant's Weight $\phi 12$	11. Occupant's Posture (0) Normal posture
Code actual weight to the nearest kilogram.	
(999) Unknown	Abnormal posture (1) Kneeling or standing on seat
Ĺ kilograms	(2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat
Kilografile	(4) Sitting sideways or turned to talk with another
9. Occupant's Role	occupant or to look out a rear window (5) Sitting on a console
(1) Driver (2) Passenger	(6) Lying back in a reclined seat position
(9) Unknown	(7) Bracing with feet or hands on a surface in front of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
·	
	BEST AVAILABLE

EJECTION/ENTRAPMENT						
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	ψ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown				
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	ф.	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):				

	BELT SYSTE	VI FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
	(9) Unknown	23. Automatic (Passive) Belt System Availability/
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	(4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): 	rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts (0) None used or not available	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system
	(1) Belt used properly(2) Belt used properly with child safety seat	(9) Unknown 26. Proper Use of Automatic (Passive) Belt System
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown
	 (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown 	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
		(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 32. Other Than First Seat Frontal Air Bag Availability/Function
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection Official injury data [] Driver/occupant interview Other (specify): [] Unknown if belt used	(This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown 38. Air Bag Deployment Accident Event Sequence Number	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed (9) Unknown
(00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM		HEAD RESTRAINT AND SEAT EVALUATION	
44.	 (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged 	ф -	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back	- -
4 5.	 (97) Not deployed (98) Unknown if deployed (99) Unknown Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): 	Φ	(03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):	
46.	(3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	ф	(99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):	_
47.	 (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contactions 	tto	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions	_
48.	 (7) Not deployed (8) Unknown if deployed (9) Unknown Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown 	ф.	(6) Seat at rear most track position (9) Unknown	

HEAD RESTRAINT AND SEAT	EVALUATION	continued
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53. Seat Back Incline Prior and Post Impact

99

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

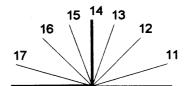
Slightly reclined prior to impact

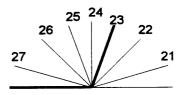
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

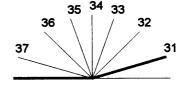
Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

- 9
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):____
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):_____
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







CHILD SAFETY SEAT	
/ Seat Make/Model ψ ψ 58. Child Safety Seat Harness Usage hild safety seat codes are found in your NASS CDS	Φ
tion, Coding and Editing in child safety seat r make/model (specify): 60. Child Safety Seat Tether Usage	ф_
60. Child Safety Seat Tether Usage	\$
Note: Options below applicable to Variables OA58-OA60.	
Id Safety Seat d safety seat Not Designed With Harness/Shield/Tether	
seat (O1) After market harness/shield/tether tible seat added, not used	
seat - with shield (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether	t
vn child safety seat type added or used vn if child safety seat used Designed With Harness/Shield/Tether	
y Seat Orientation y Seat Orientation ild safety seat (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used	
Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used	∍r
own orientation (99) Unknown if child safety seat used	
or Forward Facing for This Age/Weight facing ard facing orientation (specify):	
own orientation	
Design or Orientation For This t, or Unknown Age/Weight facing ard facing orientation (specify):	
own orientation	
own if child safety seat used	
(11) Harness/shield/tether not used (12) Harness/shield/tether used (13) Unknown if harness/shield/tether used (14) Unknown if harness/shield/tether used (15) Unknown if harness/shield/tether used (16) Unknown if harness/shield/tether used (17) Unknown if harness/shield/tether used (18) Unknown if harness/shield/tether used (19) Unknown if harness/shield/tether used (20) Harness/shield/tether used (21) Harness/shield/tether used (22) Harness/shield/tether used (23) Unknown if harness/shield/tether used (24) Unknown if child safety seat used (25) Unknown if child safety seat used (26) Unknown if child safety seat used (27) Unknown if child safety seat used (28) Unknown if child safety seat used (29) Unknown if child safety seat used	76

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
EMS Notification (1) Not notified (2) Notified (9) Unknown EMS NotificationTime (9999) Unknown EMS Arrival Time (9998) EMS cancelled or did not arrive (9999) Unknown EMS Departure Time To Treatment Facility (9997) EMS arrived, provided treatment, but did not transport (9998) EMS arrived, but was not used (9999) Unknown	EMS Type (01) Fire department (02) Rescue squad (03) Police department (04) Trauma unit (05) Disaster unit (06) Ambulance service unit (07) Hospital (08) Mortuaries/funeral homes (98) Other, specifiy:
EMS Arrival Time At Treatment Facility (9999) Unknown Treatment Facility (9999) Unknown	(99) UIIKIIUWII

TO BE CODED BY THE ZONE CENTER

INJ	URY CONSEQUENCES		TRAUMA DATA				
66. Time to Dear Code not accident to the hours. If time hours, code 31, 2 days such through 30 code (00) Not fat	th umber of hours from time of time of death up through 24 te of death is greater than 24 number of days. (Note: 1 day = 32, n days = 30 + n up days = 60) tal ruled disease	+ +	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured				
	y Reported Cause of Death	<u>Φ</u> Φ	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units):				
	ly Reported Cause of Death	\$ to 1	(9) Unknown if blood given				
Code the number(s) for injury(s) whithis occupar (00) Not far (96) Mode of injuries of dear	y Reported Cause of Death he Occupant Injury from line or the medically reported ch reportedly contributed to nt's death tal or no additional causes of death given but specific are not linked to cause th. (specify):	Φ [73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured				
	e) (specify):		BELT USE DETERMINATION				
This Occupa Code to injuries reco (00) No rec (97) Injured	Recorded Injuries for	<u>\$3</u>	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): FAC (9) Unknown if belt used				
			·				

General Information

DSI96AB10

Vehicle 1 Vehicle 2 Year: 1992 1993 Make: Mercury **Pontiac** Model: Sable Grand Am **4S**

Body Style: **4S**

CDC: 11FDEW2 **MISSING**

Damaged Side: Right

40° PDOF: 340° Heading Angle: 90° 210°

Vehicle Information

	<u>Vehicle 1</u>	Vehicle 2
Wheelbase:	269.9 cm	262.6 cm
Length:	488.2 cm	474.7 cm
Width:	180.8 cm	174.2 cm
Weight:	1554.0 kg	1310.0 kg
Center of Gravity:	228.1 cm	228.1 cm
Radius of Gyration:	146.5 cm	142.4 cm
D 0:	71.5 sqrt(N)	63.3 sqrt(N)
D1:	9.8 sqrt(N)/cm	7.5 sqrt(N)/cm
Size Category:	3	3
Stiffness Category:	3	3

Used d0 and d1 values estimated from the vehicle size (modified for offset impact). Vehicle 1:

Vehicle 2: Used d0 and d1 values estimated from the vehicle size.

DSI96AB10

WinSMASH 1, 2, 1

Damage Information

	Vehicle 1	Vehicle 2
	Offset Impact	
Damage Length:	145.0 cm	ROLDMISS
Damage Offset:	0.0 cm	
Field L - D:	-14.0 cm	0.0 cm
C1:	23.6 cm	
C2:	26.1 cm	
C3:	25.2 cm	
C4:	21.9 cm	
C5:	9.0 cm	
C6:	0.0 cm	

Summary of Results Using Damage

Vehicle 1

Speed Change

(Damage)

Total:

39.0 km/h

Longitudinal:

-36.6 km/h

Latitudinal:

13.3 km/h

PDOF:

340°

Energy Dissipated:

52,119 Joules

Barrier Equivalent Speed:

27.2 km/h

Moment Arm of Principle Force:

61.0 cm (CW)

Change in Angular Velocity:

1.8 deg/seconds

Used d0 and d1 values estimated from the vehicle size (modified for offset impact).

Vehicle 2

Speed Change

(ROLDMISS)

Total:

46.2 km/h

Longitudinal:

-35.4 km/h

Latitudinal:

-29.7 km/h

PDOF:

40°

Energy Dissipated:

186,284 Joules

Barrier Equivalent Speed:

54.9 km/h

Moment Arm of Principle Force:

66.7 cm (CW)

Change in Angular Velocity:

2.4 deg/seconds

Used d0 and d1 values estimated from the vehicle size.

DSI96AB10

WinSMASH 1.2.1

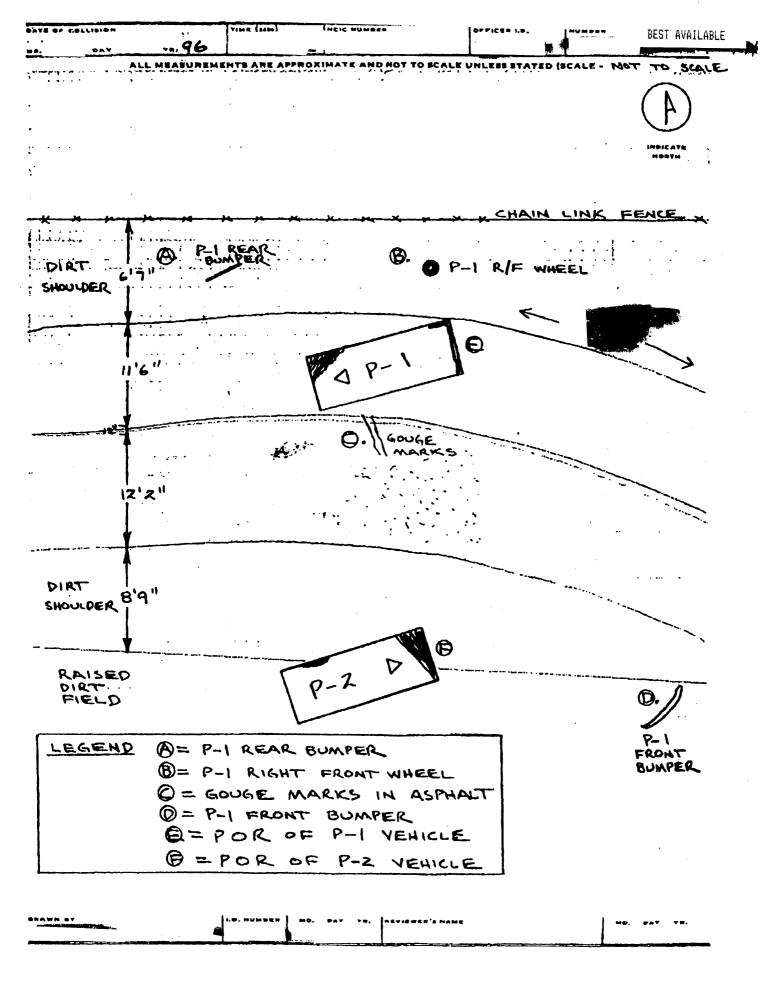
Page 3

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Use previous editions until depleted.

REVIEWER'S NAME

31. PREPARED'S NAME-AND-LD NUMBER DATE

I notified Deputy Station who will prepare and send out an updated at press release regarding the death of the boy.

Because of the fatality, the retention on this report is now "0" and the stat code is changed to "470".

Due to the death of P-2 Passenger the facts of the case will be presented to County District Attorney for consideration of a charge of Vehicular Manslaughter against P-1

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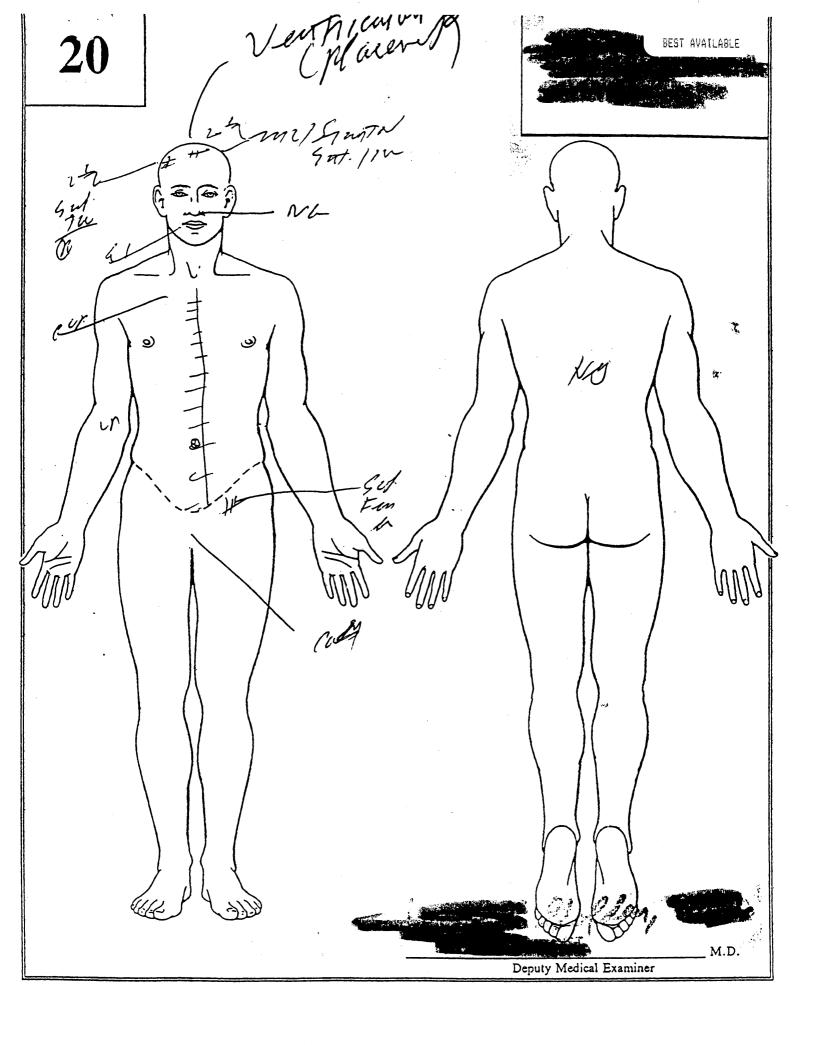
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COUNTY MEDICAL REPORT - FUNERAGIO GOICINOL C	/	
Date	APPROXI- MATE INTERVAL BETWEEN ONSET AND DEATH	
(A) Multiple Injuried  DUE TO, OR AS A CONSEQUENCE OF  (B) Blust Fore Tauma  DUE TO, OR AS A CONSEQUENCE OF	Jay	REQUEST  Police Report  Med. History  Consultation  Investigations
DUE TO, OR AS A CONSEQUENCE OF  (D)		☐ Criminalistics
Other conditions contributing but not related to the immediate cause of death:		☐ HISTOPATH CUT: ☐ AUTOPSY ☐ LAB☐ MICROBIOLOGY: ☐ NEUROPATHOLOGY
If other than natural causes HOW DID INJURY OCCUR?  WAS OPERATION PERFORMED FOR ANY CONDITION STATED ABOVE?  TYPE SURGERY  ORGAN PROCUREMENT  PERTINENT COMMENTS:  BY SURGERY  WITNESSES TO AUTOPSY:  EVIDENCE RECOVERED AT AUTOPSY Item Description:	90	TOXICOLOGICAL SPECIMENS COLLECTED  YES, by
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# **EXAMINATION PROTOCOL**

FOLLOW FORM EXACTLY AS PRINTED CIRCLE OR CHECK <u>ONE OR THOSE THAT APPLY</u> REMEMBER THE FORM IS PRINTED ON BOTH SIDES



page 1 of 2	
The body is identified by toe tags.	Diagram(s) & form(s) used
The body	and I inspected the clothing. did not see the clothing.
The clothing can be described as	
Rigor has presumably been altered Rigor mortis is present.	ed abolished as has livor. mortis is
	Caucasian Hispanic Indian
Appears: Asian Black	— Caucasian — mar
Sex: Male Female.	Appears the stated age of: years
The body weighs approximately  pounds, measures  approx  yinches and is	cachectic. mildly/moderately/extremely obese. poorly nourished. thin. well-built, muscular and fairly well-nourished. status post hospitalization, (see diagram)
Yea	Decomposed Mutilated
Embalmed:NoYes	
Irides: Blue Brown	Grey Hazel
Sclera:NormalIcteric	Congested with/without Petechial Hemorrhage
Conjunctival Petechial Hemorrhage:	
	nd Brown Gray Red White
	Straight Tightly Curled Wavy
	resent Located: temple/frontal/occipital
	sent Beard: Absent Present
Teeth: Absent Present	Comment:
Dentures:Absent Present	Comment:
Scars: None Present Con	mment: Theisian -
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(1-95)

Tattoos:	Absent	Present	Comment:			
Deformities:	Absent	Preser	nt Comment:			
There is no def	formity or ab	normal mob	ility of the	extremities ex	ept for	
The oral and na	asal passages	are unobst	tructed/ <del>obst</del>	ructed by		
Resuscitative m	marks are/are	not preser	nt over the	precordium. The	chest has no	a <b>x</b> /â
mildhy increase	ed anterior-p	osterior d	iameter.			
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#### CARDIOPULMONARY RESUSCITATION, TRAUMATIC AND FULL ARREST NOTE

HISTORY OF PRESENT ILLNESS: is a 7-year-old patient who comes to the Emergency Room via paramedics and air squad in traumatic full arrest. He was involved in a motor vehicle accident at approximately 1830 hours. Apparently, a high speed, head on collision. Both cars were in the 50 to 60 miles per hour range. Paramedics arrived with no blood pressure or pulse with air bag and seat belt injuries to the chest and abdomen. They started mask suit airway control with an oral airway and hyperventilated and also started IV full fluids. He was given epinephrine 1 mg times two. The patient converted to a sinus tachycardia with a palpable blood pressure. But this only lasted for approximately 15 minutes and then on arrival to the Emergency Department, he was in full cardiac arrest.

There is no other past medical history available at this time, but later the father gave no history that there is underlying medical problems.

PHYSICAL EXAMINATION: GENERAL APPEARANCE: On arrival in the Emergency Room the patient has basically trauma to the upper chest and right clavicle as well as a slightly distended abdomen. LUNGS: Lung sounds though with the ambu bag are clear bilaterally. HEART: Heart sounds are not present due to the patient's flat line on cardiac monitor. EXTREMITIES: The patient's extremities were in the ambu bag initially and were not examined. The patient was in the mask suit initially. The paramedics though described that they had no obvious trauma to these extremities prior to the mass suit.

COURSE IN THE EMERGENCY ROOM: The patient was attached to the cardiac monitor and was in flat line. He was immediately continued on external cardiopulmonary resuscitation which was in progress on arrival and was immediately intubated with a #6 tube without complications. There was a lot of vomitus in the airway and there was a potential aspiration.

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EMERGENCY ROOM

The patient had bilateral IV's already established and was given additional epimephrine, Atropine and Bicarbonate. He slowly returned with a sinus rhythm which showed quite a bit of ectopy and nasogastric tube also was put down almost simultaneously.

The ectopy immediately stopped and remained in sinus tachycardia and his blood pressure initially was momentarily up to the 160 range but then quickly dropped back down to 90 and that is where it seemed to stabilize after approximately a liter and a half of fluid.

Initially, we called the Trauma Team.

pediatrics. But by the time that these people called back and actually

was in the Emergency Department, the patient's father came and told us he was a patient. At that time,

recommended calling a doctor.

and were called. They immediately returned the call and they would be available to follow up.

The CBC came back with a hemoglobin of 13, hematocrit of 40, and white blood cell count of 10,000. Initial blood gases after intubation showed the pH of 7.04, PCO2 48, PO2 22, indicating marked lactic acidosis with adequate oxygenation. The electrolytes showed a slightly low bicarbonate at 17, glucose was 308, BUN 13, creatinine 0.6.

The patient continued on fluids and was able to be stable enough to go for a CT scan of the chest and abdomen. The CT scan was only up for a short time because of the electrical storm that was available and we had very limited time for the CT scan. The patient's CT scan of the great vessels and cardiac silhouette all appeared good. There was no evidence of cardiac tamponade. The patient had some excess fluid in the abdomen but the spleen and liver, pancreas and kidneys all appeared to be intact.

at the time of dictation, was here evaluating the patient as well as

The patient remained and started to drop his blood pressure at this time and as soon as the father's CT scan of the abdomen and chest was done, a CT scan of the child's head will be done.

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EMERGENCY ROOM

#### ELECTROCARDIOGRAM INTERPRETATION:

FINDINGS: Electrocardiogram was done and this showed premature ventricular contractions with sinus tachycardia but no ischemic changes.

PLAN: The patient will be admitted to Intensive Care Unit under the care of with _____as pediatric consultation.

#### ADMISSION DIAGNOSIS:

- Status post traumatic full arrest.
- 2. Cardiac contusion.
- 3. Cardiac arrhythmias with ventricular fibrillation in the field.
- 4. Fixed and dilated pupils more than likely related to cardiac arrest.

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FINAL DIAGNOSIS:

CHIEF COMPLAINT:

Cardiopulmonary full arrest, auto-

versus-auto.

HISTORY OF

PRESENT ILLNESS:

was a previously healthy 71/2-year-old white male who was a passenger in his grandfather's
automobile while they were traveling on the highway, traveling
approximately 55-65 mph. They were involved in a head-on
collision.

was wearing a seat belt and the air bag
deployed his chest.

The child was found in full arrest and was given cardiopulmonary resuscitation for approximately 15 minutes out in the field by an off-duty paramedic. The paramedic continued CPR until the paramedics arrived and then continued CPR en route to

Hospital. The child arrived at the emergency room nonresponsive, pupils fixed and dilated. The child was immediately intubated with a 6.0 endotracheal tube and given epinephrine times one and bicarbonate was given. The child was also to be given atropine and did convert into a sinus rhythm.

LABORATORY DATA: Hemoglobin 13, hematocrit 40, white count 10 with normal platelets. The electrolytes were normal with an elevated glucose of 300. Urinalysis was positive for 3+ blood.

#### Neurologic:

The patient has been unresponsive, pupils fixed and dilated. The head CT scan with leftover contrast from the abdominal CT revealed no midline shift, no evidence of dilated ventricles, cerebral edema or evidence of mid brain herniation.

The patient was given Mannitol 0.25 gm/kg times one, Decadron 1 mg/kg/dose and from neurology was consulted. No seizure activity or posturing was noted.

<u>Respiratory:</u>

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The patient_was_intubated with an endotracheal tube of 6.0, cuffed with a 50 cc air lead. Tidal volume 250 cc. The I-time 1.3, respiratory rate 60, PEEP 3. The oxygen saturation is in the mid 70's to low 80's on 100% oxygen.

The last gas was pH 7.27, pCO2 30, pO2 must have been a mixed venous because the pO2 was 48. The oxygen saturation was 78%. Will continue to monitor respiratory status.

#### <u>Cardiovascular:</u>

No heart rate on admission. The pulse has been 100-160. Blood pressure initially 80-90/50, dipping down to 40/30. Dopamine drip started. It has been hovering at 8 0-85/50. Also received normal saline bolus of 100 cc times two. A dopamine drip was started at 5 mcg/kg/min which has been bumped up to 15 mcg/kg/min. Dobatana spala 6 5mcg/kg/min a wall 1 1 + 75 mcg/kg/min

The cardiovascular condition is continually being monitored. Will add dobutamine if necessary.

#### <u>Gastrointestinal:</u>

Abdominal CT was negative. There was no evidence of liver, spleen or gross kidney trauma. There is blood in the urine. The patient has an nitroglycerin to intermittent suction with small amounts of coffee ground emesis. The patient is NPO.

evidence of a surgical abdomen. There is an ileus secondary to the trauma. Continue the management as directed. Would consider putting the patient on Zantac Cimetidine and (H2 blockers)

#### Renal:

The patient had a Foley catheter with good urinary output which responded to about an 80-100 cc urine output after the Mannitol.

#### <u>Hematologic:</u>

The patient appears to be stable. Hemoglobin of 13% on admission is now 11%. No evidence of active bleeding. Will repeat another hematocrit and arterial blood gases. Consider PT, PTT.

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## Infectious Disease:

The patient is hypothermic at 91-92°F. Has been placed on blankets and some external thermal measures. Also was given Rocephin 1 gm intravenously.

#### IMPRESSION

AND PLAN: This is a previously healthy 7-1/2-year-old male who suffered most likely severe brain anoxia who is now unresponsive. The pupils are fixed and dilated. Head CT scan is negative as noted.

The family is aware of his grave condition and have agreed to transport the patient to the pediatric intensive care unit at the so that he can undergo further studies to document whether there is brain activity on the electroencephalogram and have pediatric neurology evaluation.

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Date of Consultation:

96

CONSULTANT:

REQUESTED BY:

REASON FOR

CONSULTATION: I was asked to see this patient in consultation by the emergency room doctor and also by the , and I responded as soon as I could. I finished my surgery upstairs and then came down and evaluated the patient in the emergency room. There is only minimal history available, but I understand that the patient was involved as a passenger in a car involved in a head on collision with each car going approximately 55-60 miles an hour. The patient was apparently wearing a seat belt and the air bag did inflate.

There was someone near the scene of the accident. I have been told that this was an off duty paramedic or fireman who gave the patient approximately eight minutes of mouth-to-mouth resuscitation and then the paramedics arrived and the patient apparently had suffered a full arrest in the field. The patient had fixed and dilated pupils and had repeated ventricular fibrillation. The patient, eventually was brought to the emergency room where he was evaluated by

The patient was noted to be fixed and dilated on physical examination and he was immediately intubated because he was quite hypoxic and also had evidence of a low pH of 7.0.

The patient was also noted to have been vomiting just prior to coming in and there was vomit and emesis present in the mouth and this was cleared. The patient never had good vital signs. Initially his blood pressure was approximately 50 and when I saw the patient the blood pressure was 64/30. The patient has never responded to any stimuli and the pupils have been fixed and dilated ever since his admission here. I understand that the patient immediately went to CAT scan department after he was felt to be as stable as he could be. CAT scan of the chest showed no contusions, but no evidence of any hemopheumothorax. The heart was not showing any evidence of any contusion or any pericardial tamponade. There were infiltrates in both lung fields. The CAT scan of the abdomen showed some fluid and dilated loops of small

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intestine, but there was no evidence of gross free air and there was no evidence of any rupture of his spleen or liver. We understand that his grandfather was also involved in the accident and he is a patient here in the hospital as well. The child was examined.

#### PHYSICAL

EXAMINATION: The child was lying in a flat position or supine position. He is intubated. Head: There is no evidence of head trauma. There is a large amount of vomitus around the mouth still. Pupils are completely fixed and dilated and I myself do not see any gross of papilledema. Nose: Septum is in the midline. The ears are clear. Neck: Supported by means of a collar. C-spine precautions were taken, but I understand that there was no evidence of fractures. Chest is symmetrical. He has decreased air entry and he has some crackles in both lung field. There is no evidence of any subcutaneous air. Heart rate is actually fairly slow at the present time being in the 60s to 64. Shows no evidence of trauma with multiple abrasions or contusions primarily over the right lower quadrant. His abdomen is distended of course. The child was unable to respond. There is no guarding, no rebound or rigidity. Bowel sounds are absent. Genitalia: Normal male. The testicles are in the scrotum. A Foley catheter is draining urine which is grossly clear. Rectal: Examination is non-localizing. Extremities: The lower. extremities are in a MAST suit, but he does have some perfusion. Neurologic: The patient is totally comatose. There is no response to pain or painful stimuli whatsoever. He does not move any extremities.

#### IMPRESSION:

- 1. Multiple trauma.
- 2. Severe anoxic event to the brain.
- 3. Possible herniation of brain stem.
- 4. Bilateral pulmonary contusions and probable bilateral aspiration pneumonia.
- 5. Possible intra-abdominal injury, but no evidence of any fracture of spleen or liver.

DISCUSSION: I would recommend an immediate neurosurgical or neurological consult on this patient to evaluate the brain status. The patient, in fact, may have evidence of brain death. In my opinion there is no need for an emergency abdominal exploration because there is no evidence of any serious bleeding

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and no evidence of any free air or any grossly traumatized intestine. Also the patient does not need any chest tubes, that part needs to be treated medically. I will stay around and will follow the patient with you and I will certainly make recommendations after evaluation and discussion with neurologist.

Thank you for asking me to see this patient in consultation.

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DATE OF ADMISSION:

96

DATE OF DISCHARGE/DEATH:

96

PRINCIPAL DIAGNOSIS: Status post motor vehicle accident.

SECONDARY DIAGNOSIS: Brain death.

COMPLICATIONS: Expiration.

PRINCIPAL PROCEDURE: Ventilatory support.

#### SECONDARY PROCEDURES:

- 1. Femoral arterial cannulation.
- Femoral venous cannulation.
- 3. Internal jugular cannulation.
- 4. EEG.
- 5. Intravenous fluids.
- 6. Cardiorespiratory support.

#### CONDITION ON DISCHARGE: Expiration.

The patient was a 7-year-old male who was status post motor vehicle accident and was transferred to from,

The patient was traveling in an automobile with his grandfather in the passenger seat and restrained when he was struck by a head-on collision at approximately 6:30 p.m. on 96. On arrival, EMS noted the patient was in the back seat and in full arrest. CPR was performed for 15 minutes. The patient was transferred to

In the ER, the patient was intubated, CPR was initiated. The patient received epinephrine, bicarbonate, atropine. Initial pH was 7.01, initial hemoglobin and hematocrit were 13 and 44. A head CT, C-spine and abdominal CT scans were all negative. Chest x-ray did note a right pulmonary contusion in the upper lobe that progressed to diffuse infiltrates throughout on follow-up films. Urinalysis showed 3- blood. The patient was noted to have good urine output. The patient had a Glasgow Coma Scale of 3. His pupils were fixed and dilated. He was started on mannitol, Decadron, Rocephin x 1, dopamine at 10 mcg/kg/min was initiated. During transport, the dopamine was increased to 20 mcg/kg/min to maintain blood pressure. The patient was also started on dobutamine during transport.

His current medications on arrival were Rocephin, Decadron, mannitol, dopamine and dobutamine. He was noted to have no known drug allergies. He had no complications during pregnancy or delivery. Normal birth weight and normal development. His immunizations were noted to be up to date. His past history was significant for a history of wheezing episcdes x 3. He also was noted to have a head injury at 5 years of age. No other significant past medical history was noted.

On arrival, patient's vital signs were a blood pressure 101/35, pulse 170, temperature 34, respiratory rate of 30, and a weight of 25 kg. The patient was intubated and unconscious. His pupils were fixed and dilated at 6 mm bilaterally. His breath sounds were equal bilaterally. There were rales over bilateral fields. There was noted to be contusions in the seat belt position over his chest. His abdomen was soft, nondistended. There were no bowel sounds noted and no hepatosplenomegaly. Neuromuscular exam was difficult to examine due to paralysis. His extremities were noted to be cold. There were decreased peripheral pulses bilaterally. There was no movement to pain stimulation and no spontaneous movements.

Upon arrival, femoral arterial and femoral venous lines were started as well as an internal jugurar line. The patient was maintained on dopamine and dobutamine, and an epinephrine drip was initiated. The patient was adjusted for adequate ventilatory support, and cardiac support. A repeat head CT was performed which showed blood in bilateral lateral ventricles, in the subarachnoid space and in the subdural space. There was also marked cerebral edema with effacement of the suprasellar cistern and fourth ventricles. There was also multiple small cerebral parenchymal hemorrhages.

On 96, a ventriculostomy drain was placed by Neurosurgery. The patient's hospital course by systems was as follows:

PROBLEM \$1: SUPPORT: Upon admission, the patient received several IV boluses due to decreased peripheral pulses and decreased blood pressure which subsequently stabilized his blood pressure. Throughout his hospital course, he was noted to have increasing urine output which was actually inappropriate and was thought for a period of time to have diabetes insipidus. He was started on DDAVP. His urine output normalized, and the DDAVP was discontinued. His electrolytes were maintained with the appropriate boluses.

PROBLEM #2: CARDIOVASCULAR: The patient was initially started on dopamine, dobutamine, and epinephrine drips. All three drips were blowly weaned until patient maintained blood pressure on his own.

PROBLEM #3: RESPIRATORY: The patient was transferred to intubated and required minimum ventilatory support to maintain oxygen saturations, was stable on minimal ventilatory setting throughout his hospital course.

PROBLEM #4: NEUROLOGY: Due to initial cerebral edema and ventricular hemorrhage as well as hydrocephalus, a ventriculostomy drain was placed 96, also, the ventriculostomy drain was noted to 96. On fail secondary to blood clots. A revision was attempted but was unsuccessful. In addition, the patient's neurological exam remained to show very minimal neurological activity from the beginning. The pupils were fixed and dilated. The patient never had any withdrawal to pain, 96, an EEG was never showed any spontaneous movements. On performed which showed no brain activity. In addition, a nuclear medicine cerebral scan showed no blood flow which was consistent with At this time, parents requested second opinion from prior to discontinuing life support. The parents brain death. and Social Work were consulted at this time, and after further consultation with several neurologists, the parents agreed to 96, the parents discontinue life support due to brain death. On did agree to organ donation, and was contacted.

On 96, care was taken by and patient was declared dead on 96.

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CC:

DATE OF CONSULTATION:

TYPE OF CONSULTATION: Inpatient Neurology Consultation

REASON FOR CONSULTATION: The patient is status post MVA and nonresponsive, to evaluate for brain death.

The patient is a seven-year-old white male with no significant past medical history, was with his grandfather yesterday and had a head-on collision MVA at about 60 mile per hour in single-lane highway. The patient was in the front passenger seat with his seatbelt on and airbags opened up. According to the parents, the car was totally destroyed. Grandfather suffered several fractures but did not lose his consciousness.

In the field, the patient was found pulseless, and bystander initiated CPR. At the patient was still pulseless, and CPR was continued, and the patient was intubated. His pH at that time was 7.01. CT of the head, spine and abdomen were all negative. Chest x-rays showed bilateral pulmonary contusion in the upper lobe, which later progressed to diffuse infiltrate. Pupils were fixed and dilated, nonresponsive. Glasgow score of 3 was given to the patient because of +3 blood in his urine. The patient was treated with Miochol, Decadron, Rocephindopamine and dobutamine.

FAMILY HISTORY: Diabetes and asthma.

SOCIAL HISTORY: The patient's development for his age was normal.

No known allergies.

Currently, he is on epinephrine IV, dopamine IV, and Decadron has been discontinued.

VITAL SIGNS: Weight 25 kg, temperature 35.6, pulse 164, blood pressure 76/33. GENERAL: The patient has no spontaneous movements and is intubated. Mental examination shows no response to pain or verbal stimuli, no spontaneous movement. EYES: Pupils are dilated between 6 and 7 mm bilaterally and nonreactive. FUNDUS: Within normal. Disks are sharp. Doll's eye was negative. Corneal reflex was negative. Cold

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caloric test with 60 cc of cold water at 30 degrees head-up was done on both sides of the ears without any nystagmus. EXTREMITIES: No spontaneous movement. Flaccid extremities. No response to pain. No reflex. BABINSKI'S: No response. HEENT: HEAD: Nontraumatic. NECK: soft and supple. Tympanic membranes bilaterally were red, unlikely to be blood. CARDIOVASCULAR: Tachycardia without any murmur. LUNGS: Clear to auscultation bilaterally without any wheezing. ABDOMEN: Bowel sounds present. Soft, no distention. There is a presence of belt contusion.

LABS: ABG: 7.24, pCO2 32, pO2 107. Saturation at 97%.

ASSESSMENT AND PLAN: The patient is a seven-year-old white male status post MVA, pulseless and in respiratory arrest at the field. Physical examination shows no response. Pupils are fixed and dilated at 6-7 mm and nonreactive. Cold caloric test shows no response. Doll's eye was negative. Corneal reflex was negative. CT scan of the head and abdomen were negative. Chest x-ray shows bilateral contusion.

On clinical examination, the patient no brain stem activity. We recommend an EEG to be done on this patient to evaluate for cerebral silence

This case was discussed with

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DATE OF OPERATION:

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SURGEON(S):

PREOPERATIVE DIAGNOSIS: Rule out increased intracranial pressure secondary to obstructive hydrocephalus, secondary to massive brain edema.

POSTOPERATIVE DIAGNOSIS: Obstructive hydrocephalus.

OPERATION PERFORMED: Ventriculostomy.

ANESTHESIA: Local anesthesia with standby.

DETAILS OF OPERATION: The patient was brought to the operating room and placed on the operating table in the supine position. The patient's neurologic examination had previously been determined to be consistent with cerebral death. He had made some minimal spontaneous nonpurposeful movements which prompted consideration for intracranial pressure monitoring.

The patient was given a complete haircut. The head was then positioned on a jelly doughnut. The cranium was shaved, prepped with a povidone-iodine solution and draped in the usual fashion. A line of intended incision was outlined, which was just anterior to the coronal suture, approximately 2.5 to 3 cm right of the midline. Approximately 1.5 cc of 0.5% Xylocaine plus epinephrine was infiltrated in the scalp, after which a small incision was made. A twist drill hole was made and a Becker-type ventricular catheter was introduced into the right frontal horn on the first pass. The blood returned slightly blood tinged under a significant amount of pressure. The pressure was then measured with the manometer and was found to be greater than 350 mm of water pressure.

At this point, the ventricular catheter was tunneled beneath the scalp and the subgaleal space and brought out through a separate stab wound. The catheter was secured to the scalp, after which a dry sterile dressing was applied and secured with tape. A full head dressing was then applied to the wound. The patient was then transferred to the Pediatric Intensive Care Unit where he was to be connected to the cerebrospinal fluid collection system. The patient's condition remained unchanged throughout the procedure. The estimated blood loss was less

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than 5 cc. The sponge and needle counts were reported correct at the end of the procedure.

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